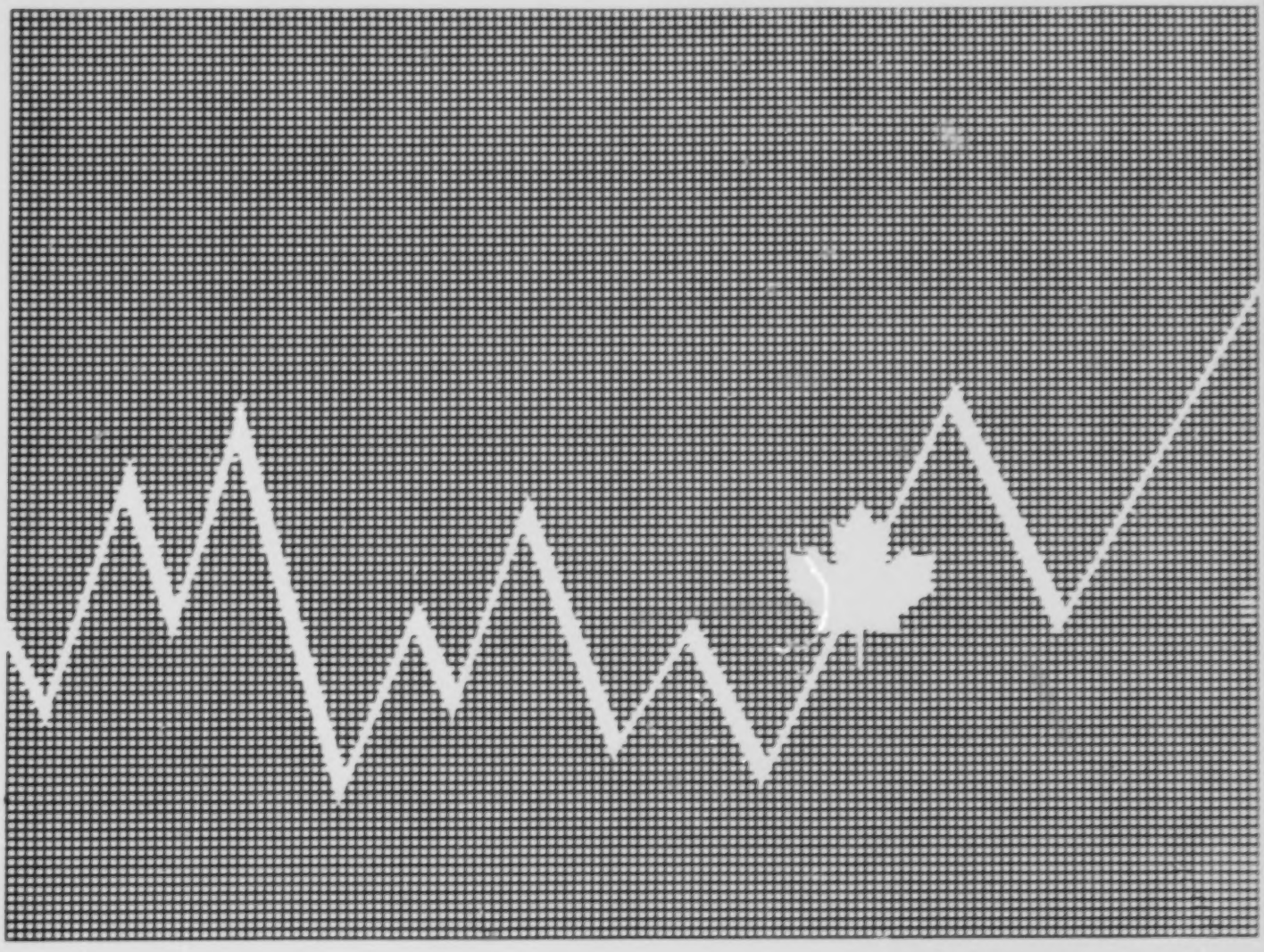
Energy, Mines and Resources Canada
Energie, Mines et Ressources Canada



ELECTRICITY RATES IN CANADA

Canada

Energy, Mines and Resources Canada
Electrical Energy Branch

Énergie, Mines et Ressources Canada
Direction de l'énergie électrique

90-04363/

ELECTRICITY RATES IN CANADA (ERIC) HANDBOOK - JANUARY 1990

Enclosed please find the lastest update to the Electricity Rates in Canada (ERIC) handbook issued as of January 1, 1990. This publication replaces the last ERIC dated October 1, 1986.

Ottawa, Ontario
K1A 0E4

Ottawa (Ontario)
K1A 0E4

Canada

ACKNOWLEDGMENTS

We would like to express our appreciation to the Canadian electric utilities for their permission to use their rate schedules to calculate typical electric bills and their verification of the results. If there are any corrections or suggestions regarding this publication, please do not hesitate to contact Pierre Durocher at (613) 995-2634.

TABLE OF CONTENTS

CHAPTER TITLES	PAGE SERIES
General Summaries	100
British Columbia	200
Alberta	300
Saskatchewan	400
Manitoba	500
Ontario	600
Québec	700
Newfoundland	800
New Brunswick	900
Nova Scotia	1000
Prince Edward Island	1100
Northwest Territories	1200
Yukon Territory	1300

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR SELECTED CANADIAN CITIES (1)

CITY	Effective Date	kWh Per Month					Run Out
		250	500	750	1000	5000	Cents/kWh/Over
		($)					
Vancouver	November 1989	21.49	33.49	44.99	56.49	240.49	4.600/275
Calgary	January 1989	17.81	29.33	40.84	52.36	236.65	5.200/all
St. Albert	April 1989	20.02	34.04	48.07	62.10	286.55	6.700/all
Edmonton	April 1988	20.37	33.97	47.57	61.17	278.77	5.440/all
Grande Prairie	March 1989	21.59	36.20	50.81	65.42	299.15	6.100/all
Regina	January 1989	24.08	39.72	55.37	71.02	321.38	5.690/all
Saskatoon	January 1989	24.08	39.73	55.38	71.03	321.43	6.260/all
Winnipeg	April 1989	19.21	30.36	41.53	52.69	231.31	4.078/175
London	January 1990	21.88	43.75	57.65	71.50	293.50	5.550/500
Ottawa	January 1990	16.55	30.18	43.80	57.43	275.43	5.450/250
Sudbury	January 1990	24.98	39.53	54.08	68.63	301.43	5.820/250
Toronto	January 1990	23.11	38.64	54.16	69.69	318.09	6.900/250
Montreal	May 1989	20.61	30.86	41.10	52.11	246.57	4.460/900
St. John's	July 1989	23.71	38.07	53.43	66.77	293.09	5.744/all
Fredericton	April 1985	23.95	38.50	53.05	65.40	235.30	4.270/800
St. John N.B.	April 1985	20.02	34.04	47.38	58.05	228.69	6.900/200
Halifax	April 1989	26.38	43.63	60.88	77.93	354.13	6.270/700
Charlottetown (2)	January 1990	28.06	50.65	73.25	95.85	457.37	9.148/all
Whitehorse	June 1986	21.80	39.30	55.80	72.30	336.30	6.600/500
Yellowknife	January 1990	33.54	56.83	80.13	103.42	476.16	9.100/all

(1) Includes sales tax, discounts, subsidies etc...
(2) All electric rate

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR SELECTED CANADIAN CITIES

CITY	EFFECTIVE DATE (b)	100 kW or 111 kVA 25 000 kWh (a) ($)	1 000 kW or 1111 kVA 500 000 kWh ($)	Run Out Cent/kWh/Over
Vancouver	November 1989	1454.81	20396.65	2.720/30000
Calgary	January 1989	1504.76	19444.92	2.38/102500 & 200 kWh/kVA
St. Albert	April 1989	1739.91.	18864.69	0.950/400 kWh/kW
Edmonton	April 1988	1858.16	28919.50	1.82/256200 & 200 kWh/kVA
Grande Prairie	March 1989	1995.08	27911.80	3.21/200 kWh/kW
Regina	January 1989	2253.84	32608.67	3.0/10000
Saskatoon	January 1989	2285.78	32625.63	3.3/10000
Winnipeg	April 1989	1461.87	19136.73	1.798/11840 or 1.798/all
London	January 1990	1304.40	25806.90	2.68/1876300
Ottawa	January 1990	1495.35	25752.85	2.68/2001800
Sudbury	January 1990	1662.18	28159.68	4.650/12500
Toronto	January 1990	2076.30	28683.00	3.520/200 kWh/kW
Montreal	May 1989	1767.00	23896.51	2.52/120 kWh/kW & 78000 kWh
St. John's	July 1989	2028.96(S) 2090.19(W)	27488.61(S) 28101.44(W)	4.798/30000 or 3.684/100000
Fredericton(2)	April 1985	2006.30	32358.30	5.02/5000
Fredericton(3)	April 1985	1570.40	28407.90	5.65/1000 kWh/kW
St. John N.B.	April 1989	1912.50	31905.00	5.68/100 kWh/kW
Halifax	April 1989	2365.00	35730.00	4.90/200 kWh/kW
Charlottetown (2)	January 1990	2099.57	33778.55	6.485/200 kWh/kW
Whitehorse	June 1986	2280.00	41100.00	6.60/400 kWh/kW
Yellowknife	January 1990	2880.00	49082.88	7.920/all

(a) Billing demand
(b) Consumption per month

(1) 90% Power Factor Assumed
(2) All electric rate
(3) Not all electric rate

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SELECTED CANADIAN CITIES

Billing Demand (1):		150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:		30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
		($)	($)	($)	
Vancouver	November 1989	1848.06	17556.70	99697.71	2.720/30000
Calgary	January 1989	1900.82	17336.24	100419.25	2.38/102500 & 200 kWh/kVA
St. Albert	April 1989	2499.94	18069.06	86388.13	0.950/400 kWh/kW
Edmonton	April 1988	2085.79	23739.08	99163.51	1.82/256200 & 200 kWh/kVA or 0.95/400 kWh/kW
Grande Prairie	March 1989	2564.29	10625.73	75602.75	3.21/200 kWh/kW or 1.2/400/kW
Regina	January 1989	3014.15	27207.29	130776.48	3.0/10000 or 2.83/all
Saskatoon	January 1989	3011.32	27191.24	145728.32	3.3/10000 or 2.69/all
Winnipeg	April 1989	2032.33	17122.97	98825.47	1.798/11840 or 1.798/all
London	January 1990	1928.40	21476.90	134795.85	2.68/1876300 or "Time of use"
Ottawa	January 1990	1916.85	21422.85	136612.55	2.68/2001800
Sudbury	January 1990	2139.68	23509.68	168659.68	4.650/12500
Toronto	January 1990	2876.85	25515.00	174618.36(W) 144657.18($)	3.520/200 kWh/kW (under 2500kW) Over 2499kW "Time of use"
Montreal	May 1989	2157.90	19403.40	106180.00	2.52/120 kWh/kW & 78000 kWh 1.77/120 kWh/kW & 2400000 kWh
St. John's	July 1989	2441.79($) 2524.03(W)	24543.40($) 25090.57(W)	140470.36($) 143248.36(W)	4.198/30000 or 3.684/100000
Fredericton(2)	April 1985	2253.00	20450.00	131530.00	3.55/100 kWh/kW or 2.66/2700 MWh
St. John N.B.	April 1989	2250.45	20061.00	133569.00	3.94/all or 3.36/all
Halifax	April 1989	2970.85	24729.21	157362.84	4.80/200 kWh/kVA or 4.2 or 3.71/all
Charlottetown (2)	January 1990	2531.86	28401.38	204014.40	7.153/200 kWh/kVA
Whitehorse	June 1986	1959.90	26466.70	206033.20	6.70/100 kWh/kVA
Yellowknife	January 1990	NOT APPLICABLE			

(1) 90% Power Factor Assumed
(2) All electric rate

TAXES ON ELECTRICITY BILLS IN BRITISH COLUMBIA

Effective: March 20, 1987

RESIDENTIAL
- Transit Levy-Vancouver $1.60 per account (from July 1, 1986)

COMMERCIAL
- Provincial Social Service 6% on net electricity bill
  From March 20, 1987

INDUSTRIAL
- Provincial Social Service 6% on net electricity bill
  From March 20, 1987

HISTORICAL

Provincial Social Service Tax Changes:

1 April 1954 - 5%
27 March 1976 - 7%
11 April 1978 - 5%
3 April 1979 - 4%
12 March 1980 - Nil for residential use, 4% for other use
10 March 1981 - Nil for residential use, 6% for other use
8 July 1983 - Nil for residential use, 7% for other use
20 March 1987 - Nil for residential use, 6% for other use

Transit Levy - Vancouver :

1 April 1980 Residential $0.61 per account
Commercial $4.21 per account
Industrial $4.21 per account

1 April 1981 Residential $1.16 per account
Commercial 5% of bill before sales tax to $2000.00 maximum
Industrial 5% of bill before sales tax to $2000.00 maximum

1 January 1982 Residential $1.16 per account
Commercial one-half of 1% of bill before sales tax
Industrial one-half of 1% of bill before sales tax

1 April, 1982 Residential $1.45 per account
1 April, 1983 Residential $0.30 per account
1 April, 1984 Residential $1.25 per account
1 April, 1985 Residential $1.60 per account
1 April, 1986 Residentail $5.30 per account
1 July, 1986 Residential $1.60 per account

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR VANCOUVER.

Effective: November 15, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Basic Charge $ 3.36	3.36	3.36	3.36	3.36	3.36
First 275 kWh at 6.61c/kWh	16.52	18.18	18.18	18.18	18.18
Rest at 4.60c/kWh	0.00	10.35	21.85	33.35	217.35
Subtotal	19.89	31.89	43.39	54.88	238.89
Plus transit levy	1.60	1.60	1.60	1.60	1.60
TOTAL	21.49	33.49	44.99	56.49	240.49

Source: B.C. Hydro and Power Authority, Schedule 1101

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR VANCOUVER-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
November 15, 1989 *	21.49	33.49	44.99	56.49	240.49	4.60/275
April 1, 1986	20.91	32.57	43.75	54.92	233.72	4.470/275
June 13, 1985	20.58	32.03	43.01	53.94	229.08	4.470/275
April 15, 1984	19.87	31.11	41.89	52.66	225.06	4.310/275
January 1, 1984	17.79	28.34	38.45	48.56	210.31	4.0436/275
April 1, 1983	17.64	28.04	38.00	47.96	207.31	3.98370/275
April 1, 1982	17.81	27.63	37.03	46.42	196.75	3.758235/275
January 1, 1982	15.92	24.80	33.31	41.82	177.94	3.403/275
February 1, 1981	14.58	22.68	30.40	38.13	161.69	3.089/275
April 1, 1980	14.36	22.24	29.74	37.24	157.24	3.0/275
September 1, 1979	14.04	21.41	28.30	35.19	145.43	2.65/275
March 1, 1978	14.18	21.40	28.09	34.78	141.78	2.5/275
March 1, 1977	13.91	19.96	25.31	30.66	116.26	2.0/275
March 1, 1976	12.08	17.30	21.76	26.22	97.62	1.7/275
September 30, 1975	10.58	15.76	19.59	23.43	84.75	1.46/300
August 1, 1974	9.45	14.07	17.48	20.90	75.50	1.3/300

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR VANCOUVER

Effective: November 15, 1989

Billing Demand (1):	**100 kW or 111 kVA**	**1 000 kW or 1 111 kVA**
Consumption/Month:	**25 000 kWh**	**500 000 kWh**
	($)	($)
Basic Charge $ 4.03	4.03	4.03
Demand Charge		
First 35 kW of billing demand at nil cost	-	-
Next 115 kW at $3.220 per kW	209.30	370.30
Rest at $6.190 per kW	0.00	5261.50
Energy Charge		
First 275 kWh at 7.690c per kWh	21.15	21.15
Next 6 725 kWh at 5.680c per kWh	381.98	381.98
Next 23 000 kWh at 4.200c per kWh	756.00	966.00
Rest at 2.720c per kWh	0.00	12784.00
Sub-Total	1372.46	19788.96
Less 1.50% Primary Metering Discount	N/A	296.83
Less discount own transformer 25c per kW	N/A.	250.00
Sub-Total	1332.65	18671.70
Plus 6% Provincial Tax	82.35	1154.53
TOTAL	1454.81	20396.65

(1) 90% Power factor assumed
Source: B.C. Hydro General Service, Schedules 1200,1211

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR VANCOUVER-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
November 15, 1989 *	1454.81	20396.65	2.720/30000
April 1, 1986	1426.15	19978.72	2.640/30000
June 13, 1985	1399.61	19599.51	25900/30000
April 15, 1984	1374.27	19221.48	2.540/30000
January 1, 1984	1290.47	18051.56	2.3889/30000
April 1, 1983	1262.53	17570.15	2.329/30000
April 1, 1982	1191.10	16561.01	2.197235/30000
January 1, 1982	1081.91	15065.38	2.003/30000
February 1, 1981	979.08	13107.64	1.689/30000
April 1, 1980	955.94	12651.79	1.6/30000
September 1, 1979	916.18	11582.00	1.15/400000
March 1978	904.25	11484.14	1.05/400000

* Current Rates

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR VANCOUVER

Effective: November 15, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Basic Charge $ 4.03	4.03	4.03	N/A
Demand Charge			
First 35 kW of billing demand at nil cost	0.00	0.00	N/A
Next 115 kW at $ 3.220 per kW	370.30	370.30	N/A
Rest at $ 6.190 per kW	0.00	5261.50	N/A
For 5 000 kW and over: $ 3.9180/kVA of billing demand	N/A	N/A	22444.44
Energy Charge			
First 275 kWh at 7.690c per kWh	21.15	21.15	N/A
Next 6 725 kWh at 5.680c per kWh	381.98	381.98	N/A
Next 23 000 kWh at 4.200c per kWh	966.00	966.00	N/A
Rest at 2.720c per kWh	0.00	10064.00	N/A
For 5 000 kW and over: 2.310c per kWh	N/A.	N/A.	71610.00
Sub-Total	1743.46	17068.96	94054.44
Less 1.50% Primary Metering Discount	N/A.	256.03	N/A.
Less discount own transformer 25c per kVA	N/A.	250.00	N/A.
Sub-Total	1743.46	16562.92	94054.44
Plus 6% Provincial Tax	104.61	993.78	5643.27
TOTAL	1848.07	17556.70	99697.71

(1) 90% Power factor assumed Source: B.C. Hydro,Schedules 1200,1211,1821

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR VANCOUVER-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
November 15, 1989 *	1848.06	17556.70	99697.71	2.7300/30000, 2.7200/all
April 1, 1986	1811.88	17196.29	97559.83	2.64000/30000, 2.23900/all
June 13, 1985	1811.88	17196.29	97559.83	2.6400/30000, 2.199/all (2)
April 15, 1984	1746.10	16544.44	94028.88	2.5400/30000, 2.1580/all(2)
January 1, 1984	1639.58	15533.79	88291.27	2.3889/30000, 2.0263/all(2)
April 1, 1983	1605.21	15138.45	85760.69	2.329/30000, 1.9744/all(2)
April 1, 1982	1514.39	14266.87	80907.25	2.197235/30000 1.86267/all
January 1, 1982	1374.95	12964.18	64030.57	2.003/30000, 1.115/all
February 1, 1981	1248.91	11377.42	N/A	1.689/30000
April 1, 1980	1221.15	11012.73	52376.11	1.6/30000, 0.8/all
September 1, 1979	1171.50	10403.94	N/A	1.15/400000
April 1, 1979	N/A	N/A	43448.58	0.6/all
March 1, 1978	1155.69	10377.49	N/A	1.05/400000

* Current Rates
(1) 90% Power Factor Assumed

TAXES ON ELECTRICITY BILLS IN ALBERTA

Effective: January 1, 1990

	Provincial	City	EEMA
RESIDENTIAL			
Calgary	-	-	-
Edmonton	-	-	-
Grand-Prairie	-	4.65%	10.7
St-Albert	-	-	-
COMMERCIAL			
Calgary	-	-	-
Edmonton	-	-	-
Grand-Prairie	-	4.65%	9.0
St-Albert	-	-	-
INDUSTRIAL			
Calgary	-	-	-
Edmonton	-	-	-
Grand-Prairie	-	4.65%	9.0
St-Albert	-	-	-

RATES AND DISCOUNTS ON ELECTRICITY BILLS IN ALBERTA

Effective: January 1, 1990

	Provincial	City	EEMA
RESIDENTIAL			
Calgary	11.4%	-	-
Edmonton	-	-	-
Grand-Prairie	17.0%	2.60%	-
St-Albert	16.25%	-	-
COMMERCIAL			
Calgary	11.4%	-	-
Edmonton	-	-	-
Grand-Prairie	17.0%	2.60%	-
St-Albert	16.25%	-	-
INDUSTRIAL			
Calgary	11.4%	-	-
Edmonton	-	-	-
Grand-Prairie	17.0%	2.60%	-
St-Albert	16.25%	-	-

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR CALGARY.

Effective: January 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 7.10	7.10	7.10	7.10	7.10	7.10
All kWh at 5.20c per kWh	13.00	26.00	39.00	52.00	260.00
Base total	20.10	33.10	46.10	59.10	267.10
Less 11.40% of Base Provincial Tax Rebate	2.29	3.77	5.26	6.74	30.45
TOTAL	17.81	29.33	40.84	52.36	236.65

Source: City of Calgary Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR CALGARY-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1989 *	17.81	29.33	40.84	52.36	236.65	5.20/all
July 1, 1987	17.04	28.07	39.09	50.12	226.50	5.20/all
April 1, 1986	17.43	28.70	39.97	51.24	231.58	5.20/all
July 1, 1985	17.43	28.70	39.96	51.23	231.47	4.99/all
December 1, 1983	17.31	28.36	39.42	50.48	227.41	4.850/all
September 1, 1983	15.96	26.16	36.36	46.55	209.70	4.2798/all
January 1, 1983	15.46	25.26	35.07	44.88	201.79	4.2/all
October 1, 1982	14.45	23.64	32.83	42.02	189.09	3.85/all
October 1, 1981	13.23	21.58	29.94	38.30	172.00	3.50/all
May 1, 1981	11.23	18.25	25.27	32.29	144.61	3.00/all
June 1, 1980	10.02	16.66	23.29	29.92	136.07	2.82/all
April 1, 1979	8.73	14.54	20.35	26.17	119.16	2.63/all
July 1, 1978	8.55	14.32	20.10	25.87	118.27	2.50/all
January 1, 1977	7.64	12.71	17.79	22.85	103.96	2.13/all
January 1, 1976	6.68	11.08	N/A	19.88	90.28	1.76/all
July 1975	N/A	9.22	N/A	16.48	74.62	N/A
July 1974	N/A	8.16	N/A	14.59	66.02	N/A

* Current Rates, City of Calgary

N/A - Not available

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR EDMONTON

Effective: April 1, 1988

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 6.77	6.77	6.77	6.77	6.77	6.77
All kWh at 5.44c/kWh	13.60	27.20	40.80	54.40	272.00
TOTAL	20.37	33.97	47.57	61.17	278.77

Source: Edmonton Power City Domestic Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR EDMONTON-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1988 *	20.37	33.97	47.57	61.17	278.77	5.44/all
April 1, 1987	17.66	29.46	41.25	53.04	241.72	4.717/all
April 1, 1985	17.15	28.60	40.05	51.50	234.70	4.580/All
April 1, 1984	16.05	26.80	37.55	48.30	220.30	4.30/all
April 1, 1983	15.25	25.50	35.75	46.00	210.00	4.10/all
August 1, 1982	14.18	23.65	33.13	42.60	194.20	3.790/all
April 1, 1981	12.53	20.90	29.28	37.65	171.65	3.350/all
December 1, 1980	11.18	18.65	26.13	33.60	153.20	2.99/all
October 1, 1980	10.15	16.95	23.75	30.55	139.35	2.72/all
April 1, 1980	9.53	15.70	21.88	28.05	126.85	2.47/all
April 15, 1978	8.75	14.50	20.25	26.00	118.00	2.30/all
July 15, 1977	7.87	13.00	18.13	23.25	105.25	2.05/all
April 15, 1976	7.20	11.65	16.10	20.50	91.75	1.78/all

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR GRANDE PRAIRIE

Effective: March 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 7.29	7.29	7.29	7.29	7.29	7.29
All at 6.100c per kWh	15.25	30.50	45.75	61.00	305.00
Sub Total	22.54	37.79	53.04	68.29	312.29
Less Interim Reduction of 2.60% (Rider J)	0.59	0.98	1.38	1.78	8.12
Base Total	21.95	36.81	51.66	66.51	304.17
Less Provincial Rebate: 17.00% of Base	3.73	6.26	8.78	11.31	51.71
Plus Electric Energy Marketing Agency charge: 10.70% of Base	2.35	3.94	5.53	7.12	32.55
Add Local Franchise Tax: 4.65% of Base	1.02	1.71	2.40	3.09	14.14
TOTAL	21.59	36.20	50.81	65.42	299.15

Source: Alberta Power Rate Schedule 11; Residential Service

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR GRANDE PRAIRIE-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
March 1, 1989 *	21.59	36.20	50.81	65.42	299.15	6.10/all
November 1, 1987	19.74	33.10	46.46	59.81	273.53	6.26/all
March 1, 1986	12.77	21.15	27.65	35.27	136.35	5.330/500
July 1, 1985	18.37	30.41	40.54	50.67	212.76	5.92/500
April 1, 1984	18.83	31.19	41.58	51.97	218.20	5.92/500
February 1, 1983	18.70	30.97	41.28	51.60	216.65	5.92/500
January 1, 1983	18.29	30.28	40.37	50.46	211.86	5.92/500
August 1, 1982	18.96	31.39	41.84	52.29	219.57	6.1356656/500
February 1, 1982	25.05	41.48	55.30	69.12	290.19	5.92/500
October 1, 1981	21.56	35.69	47.60	59.49	249.92	4.84/500

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR ST.ALBERT

Effective: April 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 7.15	7.15	7.15	7.15	7.15	7.15
All kWh at 6.70c per kWh	16.75	33.50	50.25	67.00	335.00
Sub-total	23.90	40.65	57.40	74.15	342.15
Less 16.25% Prov. Income Tax Rebate	3.88	6.61	9.33	12.05	55.60
TOTAL	20.02	34.04	48.07	62.10	286.55

Source: TransAlta Utilities Rate Schedule 190

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR ST.ALBERT-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1989 *	20.02	34.04	48.07	62.10	286.55	6.70/all
April 1, 1988	18.86	32.07	45.29	58.50	269.93	6.70/all
January 1, 1988	17.56	29.87	42.18	54.48	251.40	6.70/all
July 1, 1987	17.43	29.64	41.86	54.07	249.52	6.70/all
February 1, 1986	19.42	33.03	46.64	60.25	278.00	6.70/all
February 1, 1985	17.70	30.17	42.64	55.11	254.64	6.01/all
November 1, 1984	17.61	30.01	42.40	54.80	253.16	6.0475/all
February 1, 1983	17.66	30.13	42.59	55.06	254.54	5.635/all
September 1, 1982	15.79	26.94	38.08	49.23	227.59	4.9/all
October 1, 1981	15.47	26.39	37.31	48.23	222.95	4.8/all

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR CALGARY

Effective: January 1, 1989

Billing Demand (1):	**100 kW or 111 kVA**	**1 000 kW or 1 111 kVA**
Consumption/Month:	**25 000 kWh**	**500 000 kWh**
	($)	**($)**
First 2 500 kWh at 9.58c per kWh	239.50	239.50
Next 100 kWh per kVA at 8.47c per kWh	940.17	9410.17
Next 100 kWh per kVA at 4.55c per kWh	505.05	5055.05
Next 100 000 kWh at 3.07c per kWh	13.65	3070.00
Rest at 2.380c per kWh	0.00	4172.14
Base Total	1698.37	21946.86
Less 11.4% of base Provincial rebate (as of January 1, 1989)	193.61	2501.94
TOTAL	1504.76	19444.92

(1) 90% Power factor assumed

Source: City of Calgary, General Service Demand - Energy Rate

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR CALGARY-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1989 *	1504.76	19444.92	2.380/102500 and 200 kWh per kVA
July 1, 1987	1440.22	18610.94	2.380/102500 and 200 kWh per kVA
April 1, 1986	1472.49	19027.93	2.380/102500 and 200 kWh per kVA
July 1, 1985	1472.41	19021.10	2.28/102500 and 200 kWh per kVA
December 1, 1983	1472.88	19046.21	2.30/102500 and 200 kWh per kVA
September 1, 1983	1395.19	17575.35	2.038/103500 and 200 kWh per kVA
January 1, 1983	1367.38	17163.09	2.00/103500 and 200 kWh per kVA
October 1, 1982	1276.36	15994.05	1.80/103500 and 200 kWh per kVA
October 1, 1981	1217.10	14748.88	1.65/105000 and 200 kWh per kVA
May 1, 1981	1013.00	12476.97	1.40/105000 and 200 kWh per kVA
June 1, 1980	935.79	11371.40	1.28/105000 and 200 kWh per kVA
April 1, 1979	813.95	9934.67	1.24/105000 and 200 kWh per kVA
July 1, 1978	805.62	9729.65	1.12/105000 and 200 kWh per kVA

* Current Rates
(1) 90% Power Factor Assumed
City of Calgary rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR EDMONTON

Effective: April 1, 1988

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Energy Charge:		
For 50 kVA and over:		
First 6 200 kWh at $529.00 per month	529.00	529.00
Next 200 kWh per kVA at 7.07c per kWh	1329.16.60	15709.54
Next 250 000 kWh per kWh at 4.87c per kWh	0.00	12175.00
Rest at 1.82c per kWh	0.00	505.96
TOTAL	1858.16	28919.50

(1) 90% Power factor assumed

Source: Edmonton Power, General Service Energy Rate (over 50 kVA)

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR EDMONTON-HISTORICAL DATA

Billing Demand: / Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1988 *	1858.16	28919.50	1.82/256200 & 200 kWh/kVA
April 1, 1987	1610.56	25073.34	1.586/256200 & 200 kWh/kVA
April 1, 1985	1563.60	24248.54	1.540/256200 & 200 kWh/kVA
April 1, 1984	1458.40	22706.90	1.55/256200 & 200 kWh/kVA
April 1, 1983	1367.60	21704.20	1.55/256200 & 200 kWh/kVA
August 1, 1982	1224.80	20448.40	1.70/256200 & 200 kWh/kVA
April 1, 1981	1079.10	17453.30	2.00/306200 & 150 kWh/kVA
December 1, 1980	970.40	15845.33	1.75/306200 & 150 kWh/kVA
October 1, 1980	888.50	14005.58	1.55/306200 & 150 kWh/kVA
April 1, 1980	821.40	12983.03	1.22/296200 & 150 kWh/kVA
April 15, 1978	729.80	11555.80	1.10/456200 & 200 kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR GRANDE PRAIRIE

Effective: March 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
All at $ 3.22 per kVA	357.42	3577.42
Energy Charge:		
First 200 kWh per kW at 7.47c per kWh	1494.00	14940.00
Rest at 3.21c per kWh	160.50	9630.00
Sub-Total	2011.92	28147.42
Less Interim Red.(rider J) 2.60%	52.31	731.83
Base Total	2064.23	28879.25
Less Provincial Rebate: 17.00% of Base	350.92	4909.47
Plus Municipal Assessment 4.65%	95.99	1342.89
Plus Electric Energy Marketing Agency Adjust.: 9.00% of Base	185.78	2599.13
TOTAL	1995.08	27911.80

(1) 90% Power factor assumed

Source: Alberta Power Rate Schedule 21, General Service

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR GRANDE PRAIRIE-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
March 1, 1989 *	1995.08	27911.80	3.21/200 kWh/kW
November 1, 1987	1827.02	25557.94	3.29/200 kWh/kW
March 1, 1986	1322.11	20885.00	5.060/400 kWh/kW
July 1, 1985	1771.32	28078.16	5.62/400 kWh/kW
April 1, 1984	1775.36	28206.36	5.62/400 kWh/kW
February 2, 1983	1762.71	28005.46	5.62/400 kWh/kW
January 1, 1983	1643.85	26117.00	5.62/400 kWh/kW
August 1, 1982	1786.56	28384.38	5.8247366/400 kWh/kW
February 1, 1982	2361.07	37512.05	5.62/400 kWh/kW
October 1, 1981	2098.51	33334.20	4.74/400 kWh/kW

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST.ALBERT

Effective: April 1, 1989

Billing Demand (1):	**100 kW or 111 kVA**	**1 000 kW or 1 111 kVA**
Consumption/Month:	**25 000 kWh**	**500 000 kWh**
	($)	($)
Demand Charge:		
First 500 kW at $16.40/kW	1640.00	8200.00
Next 2000 kW at $12.75/kW	0.00	6375.00
Rest at $ 9.60/kW	0.00	0.00
Energy Charge:		
First 400 kWh per kW at 1.75c per kWh	437.50	7000.00
Rest at 0.95c per kWh	0.00	950.00
Sub-total	2077.50	22525.00
Less 16.25% Prov. Income Tax Rebate	337.59	3660.31
TOTAL	1739.91	18864.69

(1) 90% Power factor assumed

Source: TransAlta Utilities Standard Industrial Rate: Rate Code 790

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST.ALBERT-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1989 *	1739.91	18864.69	0.95/400 kWh/kW
April 1, 1988	1645.77	17844.02	0.95/400 kWh/kW
January 1, 1988	1532.99	16621.20	0.95/400 kWh/kW
July 1, 1987	1526.46	16550.47	0.95/400 kWh/kW
February 1, 1986	1687.97	18301.56	0.950/400 kWh/kW
February 1, 1985	1591.11	17193.45	0.900/400 kWh/kW
November 1, 1983	1582.24	17099.97	0.912/400 kWh/kW
February 1, 1983	1442.66	15510.51	0.759/400 kWh/kW
September 1, 1982	1289.92	13868.40	0.660/400 kWh/kW
October 1, 1981	1219.40	13195.00	0.600/400 kWh/kW

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR CALGARY

Effective: January 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
First 2 500 kWh at 9.58c/kWh	239.50	239.50	239.50
Next 100 kWh per kVA at 8.47c per kWh	1414.49	9410.17	47059.32
Next 100 kWh per kVA at 4.55c per kWh	491.40	5055.05	25279.80
Next 100 000 kWh at 3.07c/kWh	0.00	3070.00	3070.00
Rest at 2.38c per kW	0.00	1792.14	44893.94
Sub-Total	2145.39	19566.86	120542.56
Less 6.00% Primary Meter Discount (minus first $500 of bill)	0.00	0.00	7202.55
Base Total	2145.39	19566.86	113340.01
Less 11.40% Provincial rebate	244.57	2230.62	12920.76
TOTAL	1900.82	17336.24	100419.25

Source: City of Calgary, General Service Demand - Energy Rate

* 11.4% provincial rebate effective January 1, 1989

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR CALGARY-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1989 *	1900.82	17336.24	100419.25	2.38/102500 & 200 kWh/kVA
July 1, 1987	1819.29	16592.70	96112.33	2.38/102500 & 200 kWh/kVA
April 1, 1986	1860.05	16964.47	98265.79	2.38/102500 & 200 kWh/kVA
July 1, 1985	1860.41	16962.26	98182.63	2.28/102500 & 200 kWh/kVA
December 1, 1983	1860.48	16948.61	97682.91	2.30/102500 & 200 kWh/kVA
September 1, 1983	1758.29	15606.23	89589.717	2.00/103500 & 200 kWh/kVA
January 1, 1983	1723.23	15295.09	87803.61	2.00/103500 & 200 kWh/kVA
October 1, 1982	1607.17	14275.05	81542.02	1.80/103500 & 200 kWh/kVA
October 1, 1981	1522.89	13173.13	74946.30	1.65/105000 & 200 kWh/kVA
May 1, 1981	1288.40	11166.57	67766.03	1.40/105000 & 200 kWh/kVA
June 1, 1980	1158.01	10166.57	61844.85	1.28/105000 & 200 kWh/kVA
April 1, 1979	1003.52	8838.51	54623.88	1.24/105000 & 200 kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed
City of Calgary rates

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR EDMONTON

Effective: April 1, 1988

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
Over 2000 kW only:			
First 500 kW at $16.40/kW			8200.00
Next 2000 kW at $12.75/kW			25500.00
Rest at $ 9.60/kW			24000.00
Energy Charge:			
Under 2000 kW:			
First 6200 kWh at $529.00 per month	529.00	529.00	
Next 200 kWh per kVA at 7.07c per kWh	1682.66	15709.54	
Next 250 000 kWh at 4.87c per kWh	0.00	8356.92	
Rest at 1.54c per kWh	0.00	0.00	
Over 2000 kW:			
First 400 kWh/kW at 1.75c per kWh			35000.00
Rest at 0.95c per kWh			10450.00
Sub-Total	2211.66	24595.46	103150.00
Less Primary Demand Discount:			
First 1000 kVA at $ 0.725 per kVA	121.08	725.00	725.00
Rest at $ 0.607 per kVA	0.00	67.38	2765.49
All kWh at 0.016c /kWh	4.80	64.00	496.00
TOTAL	2085.79	23739.08	99163.51

(1) 90% Power factor assumed

Source: Edmonton Power, General Service Energy Rate (Over 50 kVA) & Industrial Rate

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR EDMONTON-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1988 *	2085.79	23739.08	99163.51	Over 75 kVA: 1.82/256200 & 200 kWh/kVA Over 2000 kW: .95/400kWh/kW
April 1, 1987	1807.89	20638.31	103137.97	1.586/256200 & 200 kWh/kVA
April 1, 1985	1755.15	19980.49	100138.28	1.540/256200 & 200 kWh/kVA
April 1, 1984	1631.65	18644.20	95270.40	1.55/256200 & 200 kWh/kVA
April 1, 1983	1530.03	17755.32	91651.80	1.55/256200 & 200 kWh/kVA
August 1, 1982	1357.23	16443.60	87628.50	1.70/256200 & 200 kWh/kVA
April 1, 1981	1224.72	14060.14	81638.14	2.00/306200 & 150 kWh/kVA
December 1, 1980	1104.82	12506.88	72443.78	1.75/306200 & 150 kWh/kVA
October 1, 1980	1014.90	11342.31	65299.96	1.55/306200 & 150 kWh/kVA
April 1, 1980	929.10	10608.21	55959.44	1.22/306200 & 150 kWh/kVA
April 15, 1978	808.89	9309.28	51738.68	Under 2500 kVA 1.10/456200 & 200 kWh/kVA Over 2500 kVA: 1.40/425kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR GRANDE PRAIRIE

Effective: March 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
General Service:			
all kW at $ 3.22 per kW	483.00	-	-
Large General Service:			
First 250 kW at $13.90/kW	-	3475.00	3475.00
Next 500 kW at $11.40/kW	-	5700.00	5700.00
Next 1250 kW at $ 8.45/kW	-	2112.50	10562.50
All over 2000 kW at $ 2.96/kW	-	-	21150.00
Energy Charge:			
General Service:			
First 200 kWh per kW at 7.47c per kWh	2241.00	-	-
Rest at 3.21c per kWh	0.00	-	-
Large General Service:			
First 400 kWh per kW at 1.70c per kWh	-	6800.00	34000.00
Rest at 1.20c per kWh	-	0.00	13200.00
Sub-total	2724.00	11287.50	74887.50
Less Interim Rebate of 2.60%	70.82	293.48	1947.08
Base Total	2653.18	10994.03	72940.43
Add Local Franchise Tax: 4.65% of Base	123.37	511.22	3391.73
Less Provincial Rebate: 17.00% of Base	451.04	1868.98	12399.87
Plus Electric Energy Marketing Agency Adjustment 9% of Base (16% over 2000 kW)	238.79	511.22	11670.47
TOTAL	2564.29	10625.73	75602.75

Notes:
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(1) 90% Power factor assumed
(2) Local franchise tax for Grande Prairie 4.71% effective March 1,1986
Source: Alberta Power Rate Schedule 21 and 31, General Service

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR GRANDE PRAIRIE-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
March 1, 1989 *	2564.29	10625.73	75602.75	7.47/200 kWh/kW or 1.20/400 kWh/kW
November 1, 1987	2329.65	9654.74	68529.68	7.66/200 kWh/kW or 1.20/400 kWh/kW
March 1, 1986	1744.68	13232.45	59821.71	5.06/400 kWh/kW or 1.71/400 kWh/kW
July 1, 1985	2334.34	17356.32	79674.29	5.62/400 kWh/kW or 1.90/400 kWh/kW
February 1, 1984	2337.66	17168.81	79604.69	5.62/400 kWh/kW or 1.90/400 kWh/kW
February 1, 1983	2321.01	17046.53	79037.70	5.62/400 kWh/kW or 1.90/400 kWh/kW
January 1, 1983	2269.73	16669.89	77291.40	5.62/400 kWh/kW or 1.90/400 kWh/kW
August 1, 1982	2352.41	17277.18	80107.12	5.82/400 kWh/kW or 1.97/400 kWh/kW
February 1, 1982	3108.89	22833.06	105867.43	5.62/400 kWh/kW or 1.90/400 kWh/kW
October 1, 1981	2763.42	19645.44	91064.64	4.74/400 kWh/kW or 1.55/400 kWh/kW

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR ST.ALBERT

Effective: April 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
First 500 kW at $16.40/kW	2460.00	8200.00	8200.00
Next 2000 kW at $12.75/kW	0.00	6375.00	25500.00
Rest at $ 9.60/kW	0.00	0.00	24000.00
Energy Charge:			
First 400 kWh per kW at 1.75c per kWh	525.00	7000.00	35000.00
Rest at $ 0.95 per kWh	0.00	0.00	10450.00
Sub-total	2985.00	21575.00	103150.00
Less single transformer discount of 22.00c per kW	-	-	-
Less 16.25% Prov. Discount	485.06	3505.94	16761.88
TOTAL	2499.94	18069.06	86388.13

(1) 90% Power factor assumed

Source: TransAlta Utilities Standard Industrial Rate: Rate Code 790

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR ST.ALBERT-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1989 *	2499.94	18069.06	86388.13	0.95/400 kWh/kW
April 1, 1988	2364.68	17091.45	82217.00	0.95/400 kWh/kW
January 1, 1988	2202.63	15920.19	76600.22	0.95/400 kWh/kW
July 1, 1987	2193.26	15852.45	75790.49	0.95/400 kWh/kW
February 1, 1986	2425.31	17529.69	83809.38	0.95/400 kWh/kW
February 1, 1985	2287.06	16446.45	78605.15	0.90/400 kWh/kW
November 1, 1983	2218.92	15953.10	76292.80	0.890/400 kWh/kW
February 1, 1983	2074.68	14838.80	70616.58	0.759/400 kWh/kW
September 1, 1982	1855.03	13267.80	63140.35	0.66/400 kWh/kW
October 1, 1981	1754.02	12650.00	59491.25	0.60/400 kWh/kW

* Current Rates

(1) 90% Power Factor Assumed

TAXES ON ELECTRICITY BILLS IN SASKATCHEWAN CITIES

	HEATING	LIGHTING	COOKING
	%	%	%
RESIDENTIAL			
Surcharge	10	10	10
Sales Tax	0	0	0
COMMERCIAL			
Surcharge	10	10	10
Sales Tax	7	7	7
INDUSTRIAL			
Surcharge	10	10	10
Sales Tax	7	7	7

NOTES

Surcharge collected by Saskatchewan Power Corporation, remitted to city, town or village

Provincial Sales Tax: Education and Health Tax. All electric heating for residential accounts: 1%

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR REGINA

Effective: January 1, 1989

	kWh Per Month				
	250	500	750	1000	3000
			($)		
Basic Monthly Charge	7.66	7.66	7.66	7.66	7.66
All kWh at 5.69c per kWh	14.23	28.45	42.68	56.90	284.50
Sub-total	21.89	36.11	50.34	64.56	292.16
Add 10.00% surcharge	2.19	3.61	5.03	6.46	29.22
TOTAL	24.08	39.72	55.37	71.02	321.38

Source: Saskatchewan Power Residential Rates Standard Code E01

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR REGINA-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1989 *	24.08	39.72	55.37	71.02	321.38	5.69/all
January 1, 1988	21.59	36.66	51.73	66.80	307.92	5.48/all
February 1, 1987	18.86	32.89	46.92	60.94	285.34	5.10/all
March 1, 1986	16.75	29.86	42.98	56.10	265.98	4.770/All
August 1, 1984	15.52	27.68	39.83	51.99	246.47	4.42/all
July 9, 1983	13.95	25.24	36.53	47.82	219.76	3.91/all
August 1, 1981	12.13	21.95	31.76	41.58	191.09	3.40/all
August 1, 1980	11.47	19.85	28.21	36.59	156.30	2.72/320
June 1, 1979	11.30	18.55	25.37	32.18	141.21	2.36/320
August 15, 1977	10.32	16.95	23.19	29.42	129.12	2.20/320
June 1976	9.69	15.29	20.49	26.68	105.73	1.80/320

* Current Rates
N/A - not available

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR SASKATOON

Effective: January 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 8.43	8.43	8.43	8.43	8.43	8.43
All at 6.26c /kWh	15.65	31.30	46.95	62.60	313.00
TOTAL	24.08	39.73	55.38	71.03	321.43

Source: City of Saskatoon Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR SASKATOON-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1989 *	24.08	39.73	55.38	71.03	321.43	6.26/all
January 1, 1988	21.60	36.67	51.75	66.82	308.02	6.03/all
February 3, 1987	18.88	32.90	46.93	60.95	285.35	5.61/all
March 1, 1986	16.76	29.89	43.01	56.14	266.14	5.250/all
August 1, 1984	15.24	26.02	36.79	47.57	219.97	4.31/200
July 9, 1983	14.83	26.15	37.46	48.77	221.04	4.31/200
August 1, 1981	12.89	22.73	32.58	42.42	192.30	3.75/200
August 1, 1980	11.45	19.85	28.25	36.65	156.67	3.00/1110
June 1, 1979	11.74	18.56	25.39	32.21	141.41	2.60/250
September 1977	10.40	16.95	23.52	30.08	135.08	2.50/250
August 15, 1977	9.90	16.15	22.49	28.65	128.65	2.50/250
July 1, 1976	8.66	13.91	19.16	24.41	108.41	2.00/250

* Current Rates, City of Saskatoon

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR REGINA

Effective: January 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	300 000 kWh
	($)	($)
Basic service charge	7.96	7.96
Demand Charge:		
First 50 kVA	-	-
Rest at $ 11.54/kVA	703.94	12243.94
Energy Charge:		
First 10000 kWh at 7.53c/kWh	753.00	753.00
Rest at 3.00c per kWh	450.00	14700.00
Sub-total	1914.90	27704.90
Plus 10.00% Surcharge	191.49	2770.49
Sub-total	2106.39	30475.39
Plus 7.00% E and H Tax	147.45	2133.28
TOTAL	2253.84	32608.67

(1) 90% Power factor assumed

Source: Saskatchewan Power Corporation
General Service Schedules E05

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR REGINA-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1989 *	2253.84	32608.67	For 75-7500 kVA 3.00/10000
January 1, 1988	2203.54	31437.28	For 75-7500 kVA 2.89/10000
February 1, 1987	2031.20	28872.68	For 75-7500 kVA 2.70/10000
March 1, 1986 *	1861.66	26463.16	For 75-7500 kVA 2.52/10000
August 1, 1984	1736.48	24677.67	For 75-7500 kVA: 2.34/10000
July 9, 1983	1598.69	21944.04	For 75-7500 kVA: 2.14/all
February 1, 1982	1389.64	19082.33	For 75-7500 kVA: 1.86/all
February 1, 1981	1240.87	16554.27	For 75-999 kVA: 1.7/all For 1000-7500 kVA: 1.6/all
February 1, 1980	1080.62	14886.10	1.60 & 1.7/all
June 1, 1979	978.35	14162.00	1.6/300 kWh/kVA
August 15, 1977	877.74	12336.67	1.4/300 kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR SASKATOON

Effective: January 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Service charge	8.76	8.76
Demand Charge:		
First 50 kVA	-	-
Rest at $12.68/kVA	773.48	13453.48
Energy Charge:		
First 10000 kWh at 8.59c/kWh	859.00	859.00
Rest at 3.30c /kWh	495.00	16170.00
Sub-total	2136.24	30491.24
Plus 7.00% E and H Tax	149.54	2134.39
TOTAL	2285.78	32625.63

(1) 90% Power factor assumed

Source: City of Saskatoon: General Service Schedules 030,040 & 050

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR SASKATOON-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1989 *	2285.78	32625.63	3.30/10000
January 1, 1988	2202.98	31440.73	3.18/10000
February 3, 1987	2029.97	28873.60	2.97/10000
March 1, 1986 *	1862.95	26501.20	2.78/10000
August 1, 1984	1736.86	24702.98	2.59/10000
July 9, 1983	1539.68	21372.44	For 15-75 kVA: 3.34/200/kVA For 75-500 kVA: 6.65/all For 500-1500 kVA: 3.34/all
February 1, 1982	1337.96	18578.39	For 15-75 kVA: 3.34/200/kVA For 75-500 kVA: 2.1/all For 500-1500 kVA: 2.05/all
March 1, 1981	1188.73	16210.18	For 15-75 kVA: 3.0/200/kVA For 75-500 kVA: 1.9/all For 500-1500 kVA: 1.85/all
March 1, 1980	1021.76	14699.48	For 15-75 kVA: 2.9/300/kVA For 75-500 kVA: 1.85/all For 500-1500 kVA: 1.8/all
September 1977	934.89	16315.82	For 15-75 kVA: 2.9/300/kVA For 75-500 kVA: 1.85/all For 500-1500 kVA: 1.8/all

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR REGINA

Effective: January 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Basic service charge	7.96	7.96	7.96
Demand Charge:			
0-2000 kVA:			
First 50 kVA	-	-	-
Rest at $ 11.54/kVA	1350.18	12243.94	
Over 2000 kVA:			
All at $8.102/kVA			45014.71
Energy Charge:			
0-2000 kVA:			
First 10000 kWh at 7.82c/kWh	782.00	782.00	
Rest at 3.00c/kWh	600.00	11700.00	
Over 2000 kVA:			
All at 2.83c/kWh	-	-	73873.00
Sub-total	2740.14	24733.90	118887.71
Plus 10.00% Surcharge	274.01	2473.39	11888.77
Total	3014.15	27207.29	130776.48

(1) 90% Power factor assumed

Source: Saskatchewan Power Corp. general service schedule E05 & E23

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR REGINA-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1989 *	3014.15	27207.29	130776.48	0-2000 kVA: 3.00/10000 Over 2000 kVA: 2.383/all
January 1, 1988	2902.71	26201.64	126438.56	0-2000 kVA: 2.89/10000 Over 2000 kVA: 2.304.all
February 1, 1987	2661.58	24013.81	121564.07	0-2000 kVA: 2.70/10000 Over 2000 kVA: 2.215/all
March 1, 1986	2610.66	23552.56	150038.75	75-7500 kVA: 6.58/All
August 1, 1984	2434.91	21963.42	139913.75	75-7500 kVA: 6.14/all
July 9, 1983	2217.08	19472.34	124559.03	75-7500 kVA: 2.14/all
February 1, 1982	1927.18	16934.03	108308.97	75-999 kVA: 1.86/all
February 1, 1981	1717.43	14706.27	93865.93	75-999 kVA: 1.7/all 1000-7500kVA: 1.6/all
February 1, 1980	1476.09	13038.10	85523.59	1.7 & 1.6/all
June 1, 1979	1308.05	12349.20	81691.34	1.6/300 kWh/kVA
August 1977	1051.53	9773.16	69177.35	1.4/300 kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SASKATOON

Effective: January 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Service Charge	8.76	8.76	8.76
Demand Charge:			
0-2000 kVA:			
First 50 kVA	-	-	
Rest at $ 12.68/kVA	1483.56	13453.48	
Over 2000 kVA:			
All at $11.22/kVA			62338.32
Energy Charge:			
0-2000 kVA:			
First 10000 kWh at 8.59c/kWh	859.00	859.00	
Rest at 3.30c/kWh	660.00	12870.00	
Over 2000 kVA:			
All at 2.69c/kWh	-	-	83390.00
TOTAL	3011.32	27191.24	145728.32

(1) 90% Power factor assumed

Source: City of Saskatoon: General service schedules IV & V

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SASKATOON-HISTORICAL DATA

Billing Demand (1):	150 kW or 187 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1989 *	3011.32	27191.24	145728.32	0-2000 kVA: 3.3/10000 Over 2000 kVA: 2.69/all
January 1, 1988	2902.18	26203.86	141502.60	0-2000 kVA: 3.18/10000 Over 2000 kVA: 2.62/all
February 3, 1987	2660.55	24014.67	134402.28	0-2000 kVA: 2.97/10000 Over 2000 kVA: 2.52/all
March 1, 1986	2612.19	23582.20	150281.19	Over 10000 kWh: 2.78/All
August 1, 1984	2435.55	21983.48	140075.56	Over 10000 kWh: 2.59/all
July 9, 1983	2123.02	18894.44	121388.24	For 75-7500 kVA: 2.42/all 500-1500 kVA: 2.36/all 1500-6000 kVA: 2.36/all
February 1, 1982	1845.11	16425.89	105522.27	For 75-500 kVA: 2.1/all For 500-1500 kVA: 2.05/all For 1500-6000 kVA: 2.05/all
March 1, 1981	1636.57	14267.68	90617.56	For 75-500 kVA: 1.9/all For 500-1500 kVA: 1.85/all For 1500-6000 kVA: 1.8/all
March 1, 1980	1389.36	12809.48	82631.22	For 75-500 kVA: 1.85/all For 500-1500 kVA: 1.8/all For 1500-6000 kVA: 1.75/all
September 1977	1166.51	10966.20	72160.20	For 150-500 kVA: 1.6/300 kWh/kVA For 500-1000 kVA:

* Current Rates
(1) 90% Power Factor Assumed

TAXES ON ELECTRICITY BILLS IN MANITOBA

	PROVINCIAL	WINNIPEG	WINNIPEG TOTAL
	%	%	%
Residential Standard	7.00	2.50	9.50
Residential All Electric	1.20	0.50	1.70
Commercial Standard	7.00	5.00	12.00
Commercial All Electric	7.00	5.00	12.00
Industrial Standard	7.00	5.00	12.00
Industrial All Electric	7.00	5.00	12.00

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR WINNIPEG

Effective: April 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 4.95	4.95	4.95	4.95	4.95	4.95
First 175 kWh at 5.443c /kWh	9.53	9.53	9.53	9.53	9.53
Rest at 4.078c /kWh	3.06	13.25	23.45	33.64	196.76
Sub-total	17.54	27.73	37.93	48.12	211.24
Plus 9.5% (7% provincial tax + 2.5% municipal tax)	1.67	2.63	3.60	4.57	20.07
TOTAL	19.21	30.36	41.53	52.69	231.31

Note: Exemption of primary space heating from the electricity tax is applicable for all residential services where electricity is the principal energy for space heating.

Source:Manitoba Hydro - Leaflet

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR WINNIPEG-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1989 *	19.21	30.36	41.53	52.69	231.31	4.078/175
April 1, 1988	18.34	28.84	39.35	49.86	217.93	3.836/175
April 1, 1987	17.46	27.37	37.28	47.19	205.73	3.653/185
April 1, 1986	16.10	24.99	33.88	42.77	185.04	3.278/185
April 1, 1985	15.77	24.38	32.99	41.61	179.40	3.175/195
April 1, 1984	15.22	23.33	31.43	39.54	158.61	2.988/225
May 15, 1983	14.11	21.63	29.14	36.65	147.04	2.77/225
February 1, 1979	12.77	19.58	26.37	33.17	141.96	2.530/225
February 1, 1978	11.14	17.08	23.02	28.96	123.99	2.21/150
March 17, 1977	9.94	15.05	20.16	25.26	106.96	1.90/200
April 1, 1976	8.76	13.01	17.25	21.50	89.44	1.58/250
April 15, 1975	7.07	10.37	13.68	16.99	69.88	1.23/250
April 1, 1974	5.67	8.49	11.31	14.14	59.29	1.05/200

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR WINNIPEG

Effective: April 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Service Charge	12.49	19.40
Demand Charge:		
Demand not exceeding 200 kVA:		
First 50 kVA at nil cost	-	-
Rest at $ 7.49 per kVA	456.89	-
Demand exceeding 200 kVA:		
All at $ 7.27 per kVA	-	8076.97
Energy Charge:		
Demand not exceeding 200 kVA:		
First 1090 kWh at 6.376c/kWh	69.50	-
Next 11700 kWh at 4.434c/kWh	518.78	-
Next 2000 kWh at 3.200c/kWh	64.00	-
Rest at 1.798c per kWh	183.58	-
Demand exceeding 200 kVA:		
All at 1.798c per kWh	-	8990.00
Sub-total	1305.24	17086.37
Plus 12.00% (prov. tax of 7% and municipal tax of 5%)	156.63	2050.36
TOTAL	1461.87	19136.73

(1) 90% Power factor assumed

Source: Manitoba Hydro, Power Service Standard AD1 148A

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR WINNIPEG-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Months:	20 000 kWh	300 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1989 *	1461.87	19136.73	< 201 kVA: 1.798/14790 kWh > 200 kVA: 1.798 all
April 1, 1988	1387.57	18514.89	< 201 kVA: 1.691/12790 kWh > 200 kVA: 1.691 all
April 1, 1987	1286.68	17287.55	100 kW and over 1.614/12040 kWh
April 1, 1986	1157.57	15549.83	100 kW and over 1.456/11840 kWh
April 1, 1985	1125.11	15092.51	100 kW and over 1.407/11800 kWh
April 1, 1984	1069.21	14292.92	100 kW and over 1.3327/11700 kWh
May 15, 1983	991.09	13248.26	100 kW and over 1.23/11700 kWh
February 1, 1979	896.34	11973.84	100 kW and over 1.120/11700 kWh
February 1, 1978	776.22	10461.72	0.98/all

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR WINNIPEG

Effective: April 1, 1989

	SMALL	MEDIUM	LARGE
Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Service charge	12.49	19.40	-
Demand Charge:			
Demand not exceeding 200 kVA:			
First 50 kVA at nil cost	-	-	-
Rest at $ 7.49/kW	876.33	-	-
Demand exceeding 200 kVA:			
All at $ 7.27/kVA	-	8076.97	-
Demand between 30-100kV:			
All at $ 5.85/kVA	-	-	32502.60
Energy Charge:			
Demand not exceeding 200 kVA:			
First 1090 kWh at 6.376c/kWh	69.50	-	-
Next 11700 kWh at 4.434c/kWh	518.78	-	-
Next 2000 kWh at 3.200c/kWh	64.00	-	-
Rest at 1.798c/kWh	273.48	-	-
All demand exceeding 200 kVA:			
All kWh at 1.798c/kWh	-	7192.00	55738.00
Sub-total	1814.58	15288.37	88240.60
Plus 12.0% tax (7.00% prov. tax & 5.0% municipal tax)	217.75	1834.60	10588.87
TOTAL	2032.33	17122.97	98825.47

(1) 90% Power factor assumed

Source: Manitoba Hydro General Service and Power Rates (Small, Medium & Large)

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR WINNIPEG-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1989	2032.33	17122.97	98825.47	< 200 kVA: 1.798/14790 > 200 kVA: 1.798 all
April 1, 1988	1937.62	16300.75	93123.16	< 200 kVA: 1.691/12790 > 200 kVA: 1.691 all
April 1, 1987	17922.26	14455.13	86031.59	1.614/12040
April 1, 1986	1614.44	13136.31	80320.04	1.4560/11840
April 1, 1985	1569.94	12782.37	78152.19	1.407/11800
April 1, 1984	1491.58	12144.25	74401.03	1.327/11700
May 15, 1983	1382.58	11257.29	68966.43	1.23/11700
February 1, 1979	1251.04	10183.03	64471.88	1.12/11700
February 1, 1978	1085.76	8772.67	53586.28	0.98/all

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR URBAN AND RURAL AREAS: MANITOBA HYDRO.

Effective: April 1, 1989

	Urban		Rural	
	Rate	1000 kWh/Mo.	Rate	1000 kWh/Mo.
	($)		($)	
Service Charge			$12.12	12.12
First 175 kWh			7.174c/kWh	12.55
rest			4.078c/kWh	33.64
Sub-total				58.31
Plus 7% Provincial Sales Tax				4.08
TOTAL		52.69 *		62.39

Source: Manitoba Hydro Rural Residential Rate

* See page 501

TAXES AND DISCOUNTS ON ELECTRICITY BILLS IN ONTARIO

	HEATING	LIGHTING	COOKING
Residential	----------	Exempt	----------
Commercial	----------	Exempt	----------
Industrial	----------	Exempt	----------

A.I.B. Rebates to Toronto Hydro-Electric Customers

Period	Rebate (% of Gross Power Bill)
January-June 1978 inclusive	4.0
July-October 1978 inclusive	6.4
November & December 1978	6.2
January-December 1979 inclusive	4.0
January & February 1980	2.8
March & April 1980	1.1
May & June 1980	1.2

The rebate was applied before the prompt payment discount and was not subject to the prompt payment discount. There were no rebate after June 30,1980

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR OTTAWA

Effective: January 1, 1990

	kWh Per Month				
	250	500	750	1000	5000
			($)		
First 250 kWh at 6.62c/kWh	16.55	16.55	16.55	16.55	16.55
Rest at 5.45c/kWh	0.00	13.63	27.25	40.88	258.88
TOTAL	16.55	30.18	43.80	57.43	275.43

The minimum monthly bill is $ 4.50
Source: Ottawa Hydro: Ottawa Hydro Residential Schedule.

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR OTTAWA-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1990 *	16.55	30.18	43.80	57.43	275.43	5.45/250
January 1, 1989	15.58	28.40	41.23	54.05	259.25	5.13/250
January 1, 1988	14.75	26.90	39.05	51.20	245.60	4.86/250
January 1, 1987	14.00	25.60	37.20	48.80	234.40	4.64/250
January 1, 1986	13.30	24.63	35.75	46.87	224.88	4.450/250
January 1, 1985	12.88	23.70	34.53	43.35	218.55	4.33/250
January 1, 1984	12.00	22.15	32.30	42.45	204.85	4.06/250
January 1, 1983	11.25	20.90	30.55	40.20	194.60	3.86/250
February 1, 1982	10.15	19.00	27.85	36.70	178.30	3.54/250
February 1, 1981	9.20	17.00	24.80	32.60	157.40	3.12/250
February 1, 1980	8.55	15.68	22.80	29.93	143.93	2.85/250
February 1, 1979	7.80	14.18	20.55	26.93	128.93	2.55/250
February 1, 1978	7.50	13.50	19.50	25.50	121.50	2.40/250
February 1, 1977	7.20	12.82	18.45	24.08	114.08	2.25/250

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR TORONTO

Effective: January 1, 1990

	kWh Per Month				
	250	500	750	1000	5000
			($)		
First 250 kWh at 10.27c/kWh	25.68	25.68	25.68	25.68	25.68
Rest at 6.90c/kWh	0.00	17.25	34.50	51.75	327.75
Sub-total	25.68	42.93	60.18	77.43	353.43
Less 10.00% prompt payment discount	2.57	4.29	6.02	7.74	35.34
TOTAL	23.11	38.64	54.16	69.69	318.09

*N.B. Minimum Monthly Bill $6.00 ($ 5.40 net)

Source: Toronto Hydro Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR TORONTO-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1990 *	23.11	38.64	54.16	69.69	318.09	6.90/250
January 1, 1989	21.10	35.42	49.72	64.04	293.00	6.36/250
January 1, 1988	19.40	32.90	46.40	59.90	275.90	6.00/250
January 1, 1987	17.82	30.64	43.47	56.29	261.49	5.70/250
January 1, 1986	16.36	28.53	40.70	52.88	247.63	5.410/250
January 1, 1985	15.73	27.45	39.17	50.90	238.46	5.21/250
January 1, 1984	14.23	25.12	36.01	46.90	221.14	4.84/250
January 1, 1983	13.03	22.93	32.83	42.73	201.13	4.4/250
January 1, 1982	12.23	21.44	30.64	39.84	187.08	4.09/250
January 1, 1981	11.40	19.50	27.60	35.70	165.30	3.24/250
January 1, 1980	10.68	17.77	24.86	31.95	145.35	2.835/250
January 1, 1979	10.09	16.52	22.96	29.39	132.35	2.86/250
January 1, 1978	9.27	15.12	20.97	26.82	120.42	2.34/250
January 1, 1977	8.79	14.19	19.59	24.99	111.39	2.16/250
February 1, 1976	7.43	11.70	15.98	20.25	88.65	1.71/250
January 2, 1975	6.54	10.14	13.74	17.34	74.94	1.44/250
February 1, 1974	6.17	9.34	12.51	15.68	66.44	1.269/250

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR LONDON

Effective: January 1, 1990

	kWh Per Month				
	250	500	750	1000	5000
			($)		
First 500 kWh at 8.75c per kWh	21.88	43.75	43.75	43.75	43.75
Rest at 5.55c per kWh	0.00	0.00	13.88	27.75	249.75
TOTAL	21.88	43.75	57.65	71.50	293.50

Source: London Public Utilities Commision: Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR LONDON-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1990 *	21.88	43.75	57.65	71.50	293.50	5.55/500
January 1, 1989	20.38	40.75	53.75	66.75	274.75	5.20/500
January 1, 1988	19.12	38.25	50.63	63.00	261.00	4.95/500
January 1, 1987	18.25	36.50	48.30	60.10	248.90	4.73/500
January 1, 1986	17.38	28.63	39.88	51.13	231.13	4.500/250
January 1, 1985	17.00	28.13	39.25	50.37	228.38	4.45/250
January 1, 1984	15.63	31.25	41.75	52.25	220.25	4.2/500
January 1, 1983	14.25	24.25	34.25	44.25	204.25	4.0/250
January 1, 1982	13.00	22.25	31.50	40.75	188.75	3.70/250
January 1, 1981	11.85	19.93	28.00	36.08	165.28	3.23/250

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR SUDBURY

Effective: January 1, 1990

	kWh Per Month				
	250	500	750	1000	5000
			($)		
First 250 kWh at 9.99c /kWh	24.98	24.98	24.98	24.98	24.98
Rest at 5.82c per kWh	0.00	14.55	29.10	43.65	276.45
TOTAL	24.98	39.53	54.08	68.63	301.43

Source: Sudbury Hydro Electric Commision: Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR SUDBURY-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1990	24.98	39.53	54.08	68.63	301.43	5.82/250
January 1, 1989	23.55	37.18	50.80	64.42	282.42	5.45/250
January 1, 1988	22.45	35.45	48.45	61.45	269.45	5.20/250
January 1, 1987	21.63	34.10	46.58	59.05	258.65	4.99/250
January 1, 1986	20.55	32.50	44.45	56.40	247.60	4.780/250
January 1, 1985	19.63	31.00	42.38	53.90	238.30	4.55/250
January 1, 1984	18.13	28.93	39.73	50.53	223.32	4.32/250
January 1, 1983	16.38	26.43	36.48	46.53	207.32	4.02/250
January 1, 1982	15.00	24.28	33.55	42.83	191.23	3.71/250

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR OTTAWA

Effective: January 1, 1990

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
First 50 kW at nil cost	-	-
Rest at $ 4.10/kW	205.00	3895.50
Energy Charge:		
First 250 kWh at 6.62c per kWh	16.55	16.55
Next 12250 kWh at 5.98c per kWh	732.55	732.55
Next 1989300 kWh at 4.33c per kWh	541.25	21108.75
Rest at 2.68c per kWh	0.00	0.00
TOTAL	1495.35	25752.85

(1) 90% Power factor assumed

Source: Ottawa Hydro General Service Rate (0-5000 kW)

Date issued: January 1, 1990
Page: 626
Superceded date: October 1, 1986

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR OTTAWA-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1990 *	1495.35	25752.85	2.68/ 2001800 kWh
January 1, 1989	1409.35	24007.31	2.50/ 2009500 kWh
January 1, 1988	1336.90	22575.10	2.23/ 2387500 kWh
January 1, 1987	1272.55	21702.55	2.13/ 2397500 kWh
January 1, 1986	1223.78	20853.78	2.030/ 2292500 kWh
January 1, 1985	1184.18	20154.18	1.95/2252500
January 1, 1984	1117.85	19152.85	1.69/2002500
January 1, 1983	1030.10	17847.60	1.57/1962000
February 1, 1982	949.90	16247.40	1.45/1956000
February 1, 1981	849.58	14294.58	1.32/2117000
February 1, 1980	782.68	12945.18	1.45/21020000
February 1, 1979	710.70	11543.18	0.06/1884000
February 1, 1978	675.88	11033.38	0.96/1884000

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR TORONTO

Effective: January 1, 1990

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
$ 5.11 per kW	511.00	5110.00
Energy Charge:		
First 100 kWh/kW at 11.11c per kWh	1111.00	11110.00
Next 100 kWh/kW at 5.09c per kWh	509.00	5090.00
Rest at 3.52c per kWh	176.50	10560.00
Subtotal	2307.00	31870.00
Less 10% Prompt Payment Discount	230.70	3187.00
TOTAL	2076.30	28683.00

(1) 90% Power factor assumed

Customers supplied at 1000 kW and more are subject to a voltage discount when supplied at 13 800 volts

Source: Toronto Hydro Commercial - Industrial Rate

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR TORONTO-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1990 *	2076.30	28683.00	3.52/ 200 kWh/kW
January 1, 1989	1920.60	26451.00	3.22/ 200 kWh/kW
January 1, 1988	1820.25	24705.00	2.89/ 200 kWh/kW
January 1, 1987	1717.65	23274.00	2.71/ 200 kWh/kW
January 1, 1986	1625.85	22041.00	2.570/ 200 kWh/kW
January 1, 1985	1564.65	21204.00	2.47/200 kWh per kW
January 1, 1984	1467.90	19494.00	2.14/200 kWh per kW
January 1, 1983	1340.55	17793.00	1.95/200 kWh per kW
January 1, 1982	1252.80	16623.00	1.82/200 kWh per kW
January 1, 1981	1138.05	15003.00	1.45/200 kWh per kW
January 1, 1980	1034.10	13626.00	1.314/200 kWh/kW
January 1, 1979	960.75	12645.00	1.215/200 kWh/kW
January 1, 1978	823.45	10824.24	1.107/200 kWh/kW

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR LONDON

Effective: January 1, 1990

Billing Demand (1):	**100 kW or 111 kVA**	**1 000 kW or 1 111 kVA**
Consumption/Month:	**25 000 kWh**	**500 000 kWh**
	($)	**($)**
Demand Charge:		
First 50 kW at nil cost	-	-
Rest at $ 4.15/kW	207.50	3942.50
Energy Charge:		
First 250 kWh at 8.75c per kWh	21.88	21.88
Next 12250 kWh at 5.99c per kWh	733.77	733.77
Next 1863800 kWh at 4.33c per kWh	541.25	21108.75
Rest at 2.68c per kWh	0.00	0.00
Total Energy	1296.90	21864.40
TOTAL	1504.40	25806.90

(1) 90% Power factor assumed

Source: London Public Utilities Commission: General Service Rate (0-5000 kW)

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR LONDON-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1990 *	1504.40	25806.90	2.68/1876300
January 1, 1989	1408.90	24301.40	2.50/1937000
January 1, 1988	1324.57	22517.07	2.23/2240000
January 1, 1987	1271.82	21656.82	2.13/2245000
January 1, 1986	1217.75	20755.25	2.03/2105000
January 1, 1985	1192.63	20255.13	1.95/2105000
January 1, 1984	1104.62	19004.63	1.69/2012500
January 1, 1983	988.75	17103.75	1.57/2195000
January 1, 1982	918.25	15903.25	1.45/2180000
January 1, 1981	805.73	13653.23	1.32/2610000

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR SUDBURY

Effective: January 1, 1990

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
First 50 kW at nil cost	-	-
Rest at $ 4.90/kW	245.00	4655.00
Energy Charge:		
First 250 kWh at 9.99c per kWh	24.98	24.98
Next 12250 kWh at 6.62c per kWh	810.95	810.95
Rest at 4.65c per kWh	581.25	22668.75
Total Energy	1417.18	23504.68
TOTAL	1662.18	28159.68

(1) 90% Power factor assumed

Source: Sudbury Hydro Electric Commission: General Service Rate

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR SUDBURY-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1990 *	1662.18	28159.68	4.65/12500
January 1, 1989	1569.18	26559.18	4.38/12500
January 1, 1988	1527.25	25607.25	4.16/12500
January 1, 1987	1475.68	24708.18	4.01/12500
January 1, 1986	1291.47	23533.97	3.83/12500
January 1, 1985	1373.45	22955.95	3.71/12500
January 1, 1984	1300.43	21584.93	3.45/12500
January 1, 1983	1186.13	19953.63	3.25/10000
January 1, 1982	1110.48	18352.98	2.91/10000
February 1, 1981	1026.75	16501.75	2.50/10000

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR OTTAWA

Effective: January 1, 1990

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
First 50 kW at nil cost	-	-	-
Next 4950 kW at $4.10/kW	410.00	3895.00	20295.00
Rest at $10.71/kW	-	-	-
Energy Charge:			
First 250 kWh at 6.62c/kWh	16.55	16.55	16.55
Next 12250 kWh at 5.98c/kWh	732.55	732.55	732.55
Next 1989300 kWh at 4.33c/kWh	757.75	16778.75	86136.69
Rest at 2.68c/kWh	0.00	0.00	29431.76
TOTAL	1916.85	21422.85	136612.55

(1) 90% Power factor assumed

Source: Ottawa Hydro General Service Rates

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR OTTAWA-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	50 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1990 *	1916.85	21422.85	136612.55	2.68/2001800
January 1, 1989	1807.51	20181.51	128555.66	2.50/2009500
January 1, 1988	1720.90	19021.90	125638.17	2.23/2387500
January 1, 1987	1637.55	18102.55	119775.80	2.13/2397500
January 1, 1986	1574.28	17393.78	113430.00	0-4 950 kW 2.030/2292500 > 4 950 kW 2.030/all
January 1, 1985	1523.68	16814.18	109013.92	0-5 000 kW 1.950/2252500 > 5 000 kW 1.95/all
January 1, 1984	1435.35	15952.85	98380.60	0-5 000 kW 1.69/2002500 > 5 000 kW 1.69/all
January 1, 1983	1320.60	14837.60	90920.40	0-5 000 kW 1.57/1962000 > 5 000 kW 1.57/all
February 1, 1982	1224.40	13557.40	83201.80	0-5 000 kW 1.45/1956000 > 5 000 kW 1.45/all
February 1, 1981	1104.58	11994.58	75670.00	1.32/over 2117000 or all
February 1, 1980 2020000 or	1024.18	10915.18	67950.00	1.2/over all
February 1, 1979	938.18	9793.18	59860.00	1.06/over 1884000 or all
February 1, 1978	898.38	9383.38	56760.00	0.96/over 1844000 or all

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR TORONTO

Effective: January 1, 1990

Billing Demand (1):	50 kW or 167 kVA	1 000 kW or 1 111 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh
	($)	
Demand Charge:		
$ 5.11 Per kW	766.50	5110.00
Energy Charge:		
First 100 kWh/KW at 11.11c/kWh	1666.50	11110.00
Next 100 kWh/KW at 5.09c/kWh	763.50	5090.00
Rest at 3.52c/kWh	0.00	7040.00
Total Energy Charge	2430.00	23240.00
Subtotal	3196.50	28350.00
Less 10% Prompt Payment Discount	319.65	2835.00
TOTAL	2876.85	25515.00

(1) 90% Power factor assumed

Customers who supply own transformation equipment receive a further discount of 1% on demand & energy plus $ 1.22 per kW.

Source: Toronto Hydro

CALCULATION OF MONTHLY ELECTRICITY COSTS FOR LARGE USERS IN TORONTO USING 2500-4999 KW

Effective: January 1, 1990

	WINTER	SUMMER
Billing Demand (1):	2 500 kW or 2 778 kVA	2 500 kW or 2 778 kVA*
Consumption/Month:	1 500 000 kWh	1 500 000 kWh
		($)
Demand Charge (peak only):		
Winter $ 9.53/kW	23825.00	
Summer $ 8.12/kW		20300.00
Energy Charge:		
Peak period (Mon.-Fri., 9AM-8PM)		
Winter 6.91c/kWh	54934.50	
Summer 5.96c/kWh		47382.00
Shoulder period (Mon.-Fri., 7-9AM)		
Winter 6.91c/kWh		
Summer 5.96c/kWh		
Off-Peak period (other than above)		
Winter 2.93c/kWh	20656.50	
Summer 2.19c/kWh		15439.50
Subtotal	99416.00	83121.50
Less 10% Prompt Payment Discount	9941.60	8312.15
TOTAL	89474.40	74809.35

(1) 90% Power factor assumed

* Summer rates apply during the months of April, May, June, July, August and September.
* Winter rates apply during the months of October, November, December, January, February and March.

Customers who supply own transformation equipment receive a further discount of 1% on demand & energy plus $ 1.22 per kW.

N.B. 1989 Statistics for "time of use" rate users show consumption ratios to be 53% peak, 47% off-peak for Toronto Hydro.
Source: Toronto Hydro

CALCULATION OF MONTHLY ELECTRICITY COSTS FOR LARGE USERS IN TORONTO USING 5000 KW AND MORE

Effective: January 1, 1990

	WINTER	SUMMER
Billing Demand (1):	5 000 kW or 5 556 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	3 100 000 kWh	3 100 000 kWh
		($)
Demand Charge (peak only):		
Winter $ 9.86/kW	49300.00	
Summer $ 8.25/kW		41250.00
Energy Charge:		
Peak period (Mon.-Fri., 9AM-8PM)		
Winter 6.21c/kWh	102030.30	
Summer 5.33c/kWh		87571.90
Shoulder period (Mon.-Fri., 7-9AM)		
Winter 6.21c/kWh		
Summer 5.33c/kWh		
Off-Peak period (other than above)		
Winter 2.93c/kWh	42690.10	
Summer 2.19c/kWh		31908.30
Subtotal	194020.40	160730.20
Less 10% Prompt Payment Discount	19402.04	16073.02
TOTAL	174618.36	144657.18

(1) 90% Power factor assumed

* Summer rates apply during the months of April, May, June, July, August and September.
* Winter rates apply during the months of October, November, December, January, February and March.

N.B. 1989 Statistics for "time of use" rate users show consumption ratios to be 53% peak, 47% off-peak for Toronto Hydro.
Source: Toronto Hydro

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR TORONTO-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1990	2876.85	25515.00	174618.36(W) 144657.18(S)	under 2500 kW: 3.52/200 kWh/kW >2499 kW="time of use"
January 1, 1989	2663.55	23553.00	163528.83(W) 139961.61(S)	under 5000 kW: 3.22/200 kWh/kW >4999 kW="time of use"
January 1, 1988	2535.30	22104.00	139131.00	2.89/200 kWh/kW
January 1, 1987	2393.55	20833.00	131004.00	2.71/200 kWh/kW
January 1, 1986	2265.30	19728.00	124083.00	2.57/200 kWh/kW
January 1, 1985	2180.25	18981.00	119358.00	2.47/200 kWh per kW
January 1, 1984	2057.40	17568.00	109026.00	2.14/200 kWh per kW
January 1, 1983	1879.20	16038.00	99495.00	1.95/200 kWh per kW
January 1, 1982	1765.35	14985.00	92943.00	1.82/200 kWh per kW
January 1, 1981	1598.40	13354.00	83709.00	1.61/200 kWh per kW
January 1, 1980	1452.60	12312.00	76014.00	1.314/200 kWh per kW
January 1, 1979	1330.00	11430.00	70515.00	1.215/200 kWh per kW
January 1, 1978	1236.60	10458.00	64467.00	1.107/200 kWh per kW

* Current Rates
(S) = Summer rates, (W) = Winter rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR LONDON

Effective: January 1, 1990

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
For 0-5000 kW:			
First 50 kW at nil cost	-	-	-
Rest at $ 4.15/kW	415.00	3942.50	20542.50
For 5001 kW and over:			
Time of use rates are in effect			
Energy Charge:			
For 0-5 000 kW:			
First 250 kWh at 8.75c/kWh	21.88	21.88	21.88
Next 12250 kWh at 5.99c/kWh	733.77	733.77	733.77
Next 1863800 kWh at 4.33c/kWh	757.75	16778.75	80702.54
Rest at 2.68c/kWh	0.00	0.00	32795.16
Total Energy	1215.25	13980.25	94137.25
TOTAL	1928.40	21476.90	134795.85

(1) 90% Power factor assumed

Source: London Public Commission: General Service Rates 0-5000 kW;
"Time of use" billing is in effect when demand exceeds 5000 kW.

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR LONDON-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1990 *	1928.40	21476.90	134795.85	0-5 000 kW 2.68/1876300
January 1, 1989	1798.40	20036.40	126779.92	0-5 000 kW 2.50/1937000
January 1, 1988	1695.58	18747.07	121893.07	0-5 000 kW 2.23/2240000 > 5000 kW 2.23 all
January 1, 1987	1634.32	18056.83	117288.33	0-5 000 kW 2.13/2245000 > 5000 kW 2.13/all
January 1, 1986	1565.25	17305.25	111462.25	0-5 000 kW 2.030/2185000 > 5 000 kW 2.030/all
January 1, 1985	1535.13	16905.13	107425.13	0-5 000 kW 1.69/2105000 > 5 000 kW 1.95/all
January 1, 1984	1414.63	15804.63	97783.38	0-5 000 kW 1.69/2012500 > 5 000 kW 1.69/all
January 1, 1983	1263.75	14203.75	90867.25	0-5 000 kW 1.57/2195000 > 5 000 kW 1.57/all
January 1, 1982	1173.25	13203.25	84203.25	0-5 000 kW 1.45/2180000 kWh > 5 000 kW 1.45/all
January 1, 1981	1038.23	11403.23	77196.23	0-5 000 kW 1.32/2610000 kWh > 5 000 kW 1.32/all

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SUDBURY

Effective: January 1, 1990

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
First 50 kW at nil cost	-	-	-
Rest at $ 4.90 per kW	490.00	4655.00	24255.00
Energy Charge:			
First 250 kWh at 9.99c/kWh	24.98	24.98	24.98
Next 12250 kWh at 6.62c/kWh	810.95	810.95	810.95
Rest at 4.65c/kWh	813.75	18018.75	143568.75
Total Energy	1649.68	18854.68	144404.68
TOTAL	2139.68	23509.68	168659.68

(1) 90% Power factor assumed

Source: Sudbury Hydro Electric Commission: General Service Rate.

N.B. Large customers (>5000kW) who opt for "time of use" rates are handled by Ontario Hydro.

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SUDBURY-HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1, 1990 *	2139.68	23509.68	168659.68	4.65/12 500
January 1, 1989	2020.68	22179.17	159039.17	4.38/12 500
January 1, 1988	1975.25	21447.25	152967.25	4.16/12 500
January 1, 1987	1908.68	20698.18	147568.18	4.01/12 500
January 1, 1986	1707.97	19703.97	141113.97	3.83/12 500
January 1, 1985	1778.95	19245.95	137015.95	3.71/12 500
January 1, 1984	1689.43	18134.92	128604.92	3.45/12 500
January 1, 1983	1533.63	16703.62	119253.63	3.25/10 000
January 1, 1982	1445.98	15442.98	97501.00	2.91/10 000
February 1, 1981	1351.75	14001.75	109212.98	2.50/10 000

* Current Rates

(1) 90% Power Factor Assumed

TAXES ON ELECTRICITY BILLS IN QUÉBEC

Effective: June 1982

	HEATING	LIGHTING	COOKING
	%	%	%
RESIDENTIAL	9	9	9
COMMERCIAL	9	9	9
INDUSTRIAL	9	9	9

NOTES:

Provincial Sales Tax: 1981: 8% for all categories

Industrial sector tax is waived when used for the extraction and manufacturing of raw materials.

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR MONTREAL

Effective: May 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Fixed Charge $ 9.51	9.51	9.51	9.51	9.51	9.51
First 900 kWh at 3.76c/kWh	9.40	18.80	28.20	33.84	33.84
Rest at 4.46c/kWh	0.00	0.00	0.00	4.46	182.86
Sub-total	18.91	28.31	37.71	47.81	226.21
Add 9.00% Provincial Tax	1.70	2.55	3.39	4.30	20.36
TOTAL	20.61	30.86	41.10	52.11	246.57

NOTE: Calculation based on a 30-day month

Source: Hydro Quebec Domestic Schedule

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR MONTREAL-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
May 1, 1989 *	20.61	30.86	39.89	52.11	246.57	4.46/900
May 1, 1988	19.75	29.56	39.37	49.90	233.64	4.26/900
May 1, 1987	19.04	28.49	37.95	48.08	226.40	4.09/900
May 1, 1986	18.20	27.25	36.30	45.99	216.46	3.910/900
May 1, 1985	17.28	25.87	34.45	43.64	205.40	3.71/900
February 1, 1984	16.78	25.11	33.45	42.40	200.23	3.62/900
January 1, 1983	15.91	23.82	31.72	40.41	198.24	3.62/900
January 1, 1982	14.88	22.24	29.59	37.68	184.61	3.37/900
January 1, 1981	12.96	19.44	25.92	32.83	153.79	2.80/900
January 1, 1980	11.45	17.39	23.34	29.59	137.59	2.50/900
January 1, 1979	9.94	15.34	20.74	26.35	121.39	2.20/900
January 1, 1978	8.75	13.61	18.47	23.44	105.52	1.90/900
January 1, 1977	7.94	12.20	16.39	20.57	87.53	1.55/300
January 1, 1976	7.59	11.45	15.23	19.01	79.49	1.40/300
July 1975	7.26	10.75	14.12	17.50	71.50	1.25/300
July 1974	6.70	9.83	12.80	15.77	63.29	1.10/300

* Current Rates

Provincial sales tax: 9% since January 1, 1982
8% until January 1, 1981

Source: Hydro-Québec, domestic tarifs.

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR MONTREAL

Effective: May 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
$ 4.47 per kW	447.00	4470.00
Energy Charge:		
First 120 kWh at 5.83c per kW	699.60	6996.00
Next 78000 kWh at 3.65c per kWh	474.50	2847.00
Rest at 2.52c per kWh	0.00	7610.40
Subtotal	1621.10	21923.40
Plus 9% Provincial Tax	145.90	1973.11
TOTAL	1767.00	23896.51

(1) 90% Power factor assumed

Source: Hydro Quebec General Rate H, Medium Power

ERCIAL ELECTRICITY COSTS FOR MONTREAL-HISTORICAL DATA

nd: Month:	100 kW or 111 kVA 25 000 kWh ($)	1 000 kW or 1111 kVA 500 000 kWh ($)	Run Out Cent/kWh/Over
*	1767.00	23896.51	2.52/ 120 kWh/kW and 78000 kWh
	1699.31	22975.46	2.42/ 120 kWh/kW and 78000 kWh
	1642.19	22187.39	2.33/ 120 kWh/kW and 78000 kWh
	1569.93	21220.56	2.230/ 120 kWh/kW and 78000 kWh
	1490.90	20131.64	2.11/120 kWh/kW and 78000 kWh
1984	1454.17	19639.40	2.06/120 kWh/kW and 78000 kWh
1983	1374.49	18660.26	1.95/120 kWh/kW and 87000 kWh
1982	1280.75	17401.41	1.82/120 kWh/kW and 87000 kWh
1981	1105.38	14643.72	1.45/120 kWh/kW and 87000 kWh
1980	1034.64	13215.96	1.2/120 kWh/kW and 81000 kWh
1979	920.70	11018.16	0.85/120 kWh/kW and 66000 kWh
1978	804.60	9566.10	0.65/120 kWh/kW and 525000 kWh

Rates

or Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR MONTREAL

Effective: May 1, 1989

	LOW VOLTAGE MEDIUM POWER (2)		I (3)
Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	*
Consumption/Month:	30 000 kWh	400 000 kWh	3
		($)	
Demand Charge:			
For all kW: $ 4.47 per kW	670.50	4470.00	
Energy Charge for 100 to 4999 kW:(2)			
5.83c/kWh for first 120 kWh/kW	1049.40	6996.00	
3.65c/kWh for next 78000 kWh	438.00	2847.00	
2.52c/kWh for balance	0.00	5090.40	
Energy Charge for 5000 kW and over:(3)			
4.57c/kWh for first 120 kWh/kW	-	-	
2.52c/kWh for next 2400000 kWh	-	-	
1.77c/kWh for balance	-.	-.	
Sub-total	2157.90	19403.40	
Minus high voltage credit	N/A.	N/A.	
TOTAL (4)	2157.90	19403.40	

The following credits are included:

Credits for voltage delivery

5 to 15 kV	55.26c/kW
15 to 50 kV	75.96c/kW
50 to 170 kV	89.76c/kW
80 to 170 kV	95.16c/kW
170 kV and more	123.06c/kW

(1) 90% Power factor assumed except for high voltage customers at a power factor
(2) from 100 kW to 4999 kW * for large power only
(3) from 5000 kW and over
(4) 9% prov. tax is waived for electricity used in the extraction or manufactu... (Mo. 25
Source: Hydro-Quebec, General Rates M and L

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR MONTREAL-HISTORICAL DATA

	LOW VOLTAGE MEDIUM POWER A		HIGH VOLTAGE(2) LARGE POWER B
Billing Demand (1):	150 kW or 167 kVA*	1 000 kW or 1 111 kVA*	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
	($)	($)	($)
Effective:			
May 1, 1989 *	2157.90	19403.40	106180.00
May 1, 1988	2076.00	18658.40	101749.00
May 1, 1987	2007.90	18025.40	97930.00
May 1, 1986	1919.70	17238.40	93660.00
May 1, 1985	1823.70	16359.40	88810.00
February 1, 1984	1778.40	15957.80	86590.00
January 1, 1983	1681.50	15169.50	81750.00
January 1, 1982	1567.50	14144.60	76280.00
January 1, 1981	1374.00	12109.00	68500.00
January 1, 1980	1294.50	11037.00	60750.00
January 1, 1979	1162.50	9352.00	50000.00
January 1, 1978	1020.00	8107.50	41250.00

Run Out
cents/kWh/over:

	1978	1979	1980	1981	1982	1983
A	0.65c over 120 kWh/kW and 525 000 kWh	0.85c over 120 kWh/kW and 66 000 kWh	1.2c over 120 kWh and 81 000 kWh	1.45c over 120 kWh and 87 000 kWh	1.82c/120 kWh per kW and 87 000 kWh	1.95c/120 kWh per kW and 87000 kWh
B	0.60c over 120 kWh/kW and 600 000 kWh	0.65c over 120 kWh/kW and 2400000 kWh	0.75c over 120 kWh and 2400000 kWh	1.00c over 120 kWh and 2400000 kWh	1.25c/120 kWh per kW and 2400000 kWh	1.35c/120 kWh per kW and 2400000 kWh

	1984	1985	1986	1987	1988	1989
A	2.06c/120 kWh per kW and 78000kWh	2.11c/120 kWh per kW and 78000 kWh	2.23c/120 kWh per kW and 78000 kWh	2.33c/120 kWh per kW and 78000 kWh	2.42c/120 kWh per kW and 78000 kWh	2.52c/120 kWh per kW and 78000 kWh
B	1.42c/120 kWh per kW and 2400000 kWh	1.45c/120 kWh per kW and 2400000 kWh	1.53c/120 kWh per kW and 2400000 kWh	1.60c/120 kWh per kW and 2400000 kWh	1.68c/120 kWh per kW and 2400000 kWh	1.77c/120 kWh per kW and 2400000 kWh

* Current Rates (taxes not applied)

(1) 90% Power factor assumed except for high voltage customers at a power factor of 95%
(2) Voltage (170kV) rebate applied.

TAXES AND DISCOUNTS ON ELECTRICITY BILLS IN NEWFOUNDLAND

Effective: January 1, 1985

	HEATING	LIGHTING	COOKING
RESIDENTIAL			
Discount	-10% ($1.00 Max)	-10% ($1.00 Max)	10% ($1.00 Max)
Taxes	Nil	Nil	Nil
COMMERCIAL			
Discount:			
0-10 kW Demand	10% ($1.00 Max)	10% ($1.00 Max)	10% ($1.00 Max)
10-100 kW Demand	25c/kW Demand	25c/kW Demand	25c/kW Demand
Demand > 99 kW	Nil	Nil	Nil
Taxes (before discount)	12%	12%	12%
INDUSTRIAL			
Discount > 100 kW Demand	Nil	Nil	Nil
Taxes	12%	12%	12%

SALES TAX CHANGES

April 1968 - 7%, residential, commercial and industrial accounts
April 1974 - 8%, residential, commercial and industrial accounts
Nov. 1975 -10%, residential, commercial and industrial accounts
March 1978 -11%, tax removed from residential bills
April 1980 -11%

NOTES:

1. There are no prompt payment discounts for non-domestic customers with Rate No. 3.2

2. Electricity used in the manufacturing process is exempt from retail sales tax. This exemption is determined by the provincial government.

3. Newfoundland Light and Power costs shown now include the fuel adjustment charge which varies from month to month. A summary of the fuel adjustment charges applicable to date may be found on page 800A. This charge was incorporated into the notes as of January 1, 1986.

NEWFOUNDLAND LIGHT & POWER CO. LIMITED
MONTHLY FUEL ADJUSTMENT APPLICABLE PER KILOWATT-HOUR FOR ALL RATES SHOWN FOR ST-JOHN'S

MONTH	1977	1978	1979	1980	1981	1982	1983	1984	1985
January	0.007c	0.163c	0.363c	0.485c	-	0.162c	0.597c	0.903c	1.836c
February	0.059c	0.083c	0.352c	0.365c	0.320c	0.277c	0.542c	1.070c	1.876c
March	0.075c	0.065c	0.278c	0.305c	0.102c	0.457c	0.421c	0.638c	1.500c
April	0.068c	0.076c	0.206c	0.118c	0.199c	0.568c	0.451c	0.560c	1.500c
May	0.053c	0.027c	0.064c	0.118c	0.049c	0.550c	0.206c	0.665c	1.500c
June	0.040c	0.007c	0.078c	-	0.011c	0.170c	0.080c	0.494c	1.410c
July	0.014c	0.007c	0.082c	-	0.010c	0.316c	0.047c	0.122c	0.982c
August	0.001c	0.050c	0.159c	-	0.060c	0.101c	0.234c	-	0.902c
September	0.003c	0.177c	0.504c	-	0.282c	0.042c	0.097c	0.009c	0.661c
October	0.005c	0.270c	0.564c	-	0.291c	0.519c	0.070c	-	0.567c
November	0.013c	0.383c	0.656c	-	0.043c	0.607c	0.097c	0.434c	1.364c
December	0.104c	0.412c	0.563c	-	0.119c	0.554c	0.680c	1.100c	1.201c

N.B. The monthly fuel adjustment charge is now incorporated into the schedule of rates as of January 1,1986.

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR ST. JOHN'S

Effective: July 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service charge (min. bill)	10.35	10.35	10.35	10.35	10.35
All kWh at 5.744c per kWh	14.36	28.72	43.08	57.44	287.20
Sub-total	24.71	39.07	53.43	67.79	297.55
Discount 1.5% (min.$1.00)	1.00	1.00	1.00	1.02	4.46
TOTAL	23.71	38.07	52.43	66.77	293.09

NOTE: This rate is subject to the Rate Stabilization Clause which is already included in the Schedule of Rates as of Jan. 1, 1986.

Source: Newfoundland Light and Power Co. Limited, Domestic Rate 1.1

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR ST.JOHN'S-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
July 1, 1989 *	23.71	38.07	52.43	66.77	293.09	5.744/all
July 1, 1988	24.49	39.62	54.76	69.84	308.40	6.055/all
November 12, 1988	24.68	40.00	55.32	70.58	312.10	6.130/all
July 1, 1987	23.98	38.97	53.96	68.94	308.70	5.994/all
January 1, 1986	24.25	39.50	54.76	70.01	00.00	6.101/all
July 1, 1983	22.75	37.01	51.26	65.52	000.00	4.72/all
January 1, 1983	19.94	32.39	44.83	57.27	000.00	4.38/all
December 1, 1981	17.91	29.06	40.22	51.37	00.00	4.10/1000
October 1, 1981	16.35	27.71	39.06	49.41	00.00	3.75/800
November 1, 1980	15.25	25.50	34.55	42.80	00.00	3.30/600
April 1, 1980	15.39	26.05	34.69	43.32	00.00	3.15/440
October 1, 1979	14.53	23.31	30.20	37.08	00.00	2.754/380
July 1, 1978	13.45	21.58	27.96	34.33	00.00	2.55/380
March 17, 1978	12.68	19.53	25.35	31.17	00.00	2.328/315
July 16, 1977	11.71	18.03	23.40	28.78	00.00	2.15/315
August 1, 1976	10.51	16.35	21.35	26.35	00.00	2.00/315
November 1, 1975	9.20	13.75	18.30	22.84	00.00	1.819/215
October 1, 1975	9.05	13.53	18.00	22.47	00.00	1.789/215
September 1, 1975	8.95	13.29	17.69	22.09	00.00	1.760/215
August 1, 1975	8.79	13.07	17.40	21.72	00.00	1.730/215
April 1, 1975	7.99	11.62	15.49	19.38	00.00	1.553/215

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST. JOHN'S

Effective: July 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)

N.B. : Billing rate is as below or $0.173/kWh, whichever is less (2).

Demand Charge:

For 100 - 1000 kVA:		
Apr. to Nov. at $5.15/kVA (3)	571.65	5721.65
Dec. to Mar. at $5.65/kVA (3)	627.15	6277.15
For 1000 kVA and over:		
Apr. to Nov. at $4.56/kVA (3)		5066.16
Dec. to Mar. at $5.06/kVA (3)		5621.66
($0.40/kVA transformation disc. in effect)		

Energy Charge:

For 100 - 1000 kVA:		
First 150 kWh/kVA up to maximum of 30 000 KWH at 5.715c per kWh	951.55	
Excess at 3.784c per kWh	315.96	
For 1000 kVA and over:		
First 100000 kWh at 5.115c/kWh		5115.00
Rest at 3.684c/kWh		14736.00
Sub-total (Apr. to Nov.)	1839.16	24917.16
(Dec. to Mar.)	1894.66	25472.66
Minus 1.5% discount (Apr-Nov)	27.59	373.76
(prompt payment) (Dec-Mar)	28.42	382.09
Plus 12% Provincial Tax (Apr-Nov)	217.39	2945.21
(Dec-Mar)	223.95	3010.87
TOTAL Apr. to Nov. period	2028.96	27488.61
Dec. to Mar. period	2090.19	28101.44

(1) 90% Power factor assumed

(2) Rate of 17.3c/kWh is only beneficial for seasonal businesses
Source: Newfoundland Light & Power, Rates 2.2 & 2.3

(3) Dual period pricing was introduced on November 12, 1987.

* Information on exemptions from sales tax is available from utility

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST. JOHN'S-HISTORICAL DATA

Billing Demand:(1) Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
July 1, 1989* (2)	2028.96	27488.61	For 100-1000 kVA: 3.784/30 000 For 1000 kVA & over: 3.684/100 000
(3)	2090.19	28101.44	
July 1, 1988 (2)	2146.85	29993.99	For 100 kW and over: 4.096/30 000
(3)	2209.01	31030.89	
November 12, 1987 (2)	2167.76	30408.73	For 100 kW and over: 4.170/30 000
(3)	2229.91	31030.89	
July 1, 1987	1951.70	29291.02	For 100 kW and over: 4.091/40 000
January 1, 1986	1981.66	29890.22	For 100 KW and over: 4.198/40 000
July 1, 1985	1876.39	27938.46	for 100 KW and over: 2.9/40 000
January 1, 1983	1703.24	23569.90	for 100 kW and over: 3.6/40 000
December 1, 1981	1490.29	20020.24	for 100 kW and over: 2.5/40 000
October 1, 1981	1436.76	20226.42	2.5/52 500
November 1980	1318.94	17311.23	2.1
September 1980	-	16941.21	1.961
April 1980	1318.88	16415.90	1.9
October 18, 1979	1248.02	15686.60	1.836
July 1978	1124.33	14132.07	1.7

* Current Rates

(1) 90% Power Factor Assumed
(2) Refers to rates charged in April to November period.
(3) Refers to rates charged in December to March period.

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR ST. JOHN'S

Effective: July 1, 1989

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	

N.B. : Billing rate is as below or $0.173/kWh, whichever is less (2)

Demand Charge:

For 110 - 999 kVA:

Apr. to Nov. at $5.15/kVA (3)	860.05		
Dec. to Mar. at $5.65/kVA (3)	943.55		
For 1 000 and greater kVA:			
Apr. to Nov. at $4.95/kVA (3)		5066.16	25335.36
Dec. to Mar. at $5.45/kVA (3)		5621.66	28113.36
($.40 or $.90 per kVA discount applicable for own transformation)			

Energy Charge:

For 110 - 999 kVA:

First 150 kWh/kVA to maximum 30 000 kWh at 5.388c/kWh	1431.61		
Rest at 4.198c per kWh	187.31		
For 1 000 and greater kVA:			
First 100 000 kWh at 5.115c/kWh		5115.00	5115.00
Rest at 3.684c/kWh		14736.00	110520.00
Sub-total (Apr. to Nov.)	2478.97	24917.16	140970.36
(Dec. to Mar.)	2562.47	25472.66	143748.36
Minus 1.5% prompt pay. discount	37.18	373.76	500.00
(max. $500) (Dec. to Mar.)	38.44	382.66	500.00
TOTAL Apr. to Nov. period	2441.79	24543.40	140470.36
Dec. to Mar. period	2524.03	25090.57	143248.36

(1) 90% Power factor assumed

(2) Rate of 17.3c/kWh is only beneficial for seasonal businesses
Source: Newfoundland Light & Power, Rates 2.2 & 2.3

(3) Dual period pricing was introduced on November 12, 1987.

* Information on exemptions from sales tax is available from utility(1) 90% Power factor assumed

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR ST. JOHN'S - HISTORICAL DATA

Billing Demand (1):	150 kW or 187 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
July 1, 1989 (2)	2441.79	24543.40	140470.36	For 110-999 kVA: 3.784/30000 kWh For 1000 kVA and over: 3.684/100000 kWh
(3)	2524.03	25090.57	143248.36	
July 1, 1988 (2)	2880.71	30138.58	171145.18	For 110-999 kVA: 4.096/30000 kWh For 1000 kVA and over: 3.996/100000 kWh
(3)	2974.23	30760.74	174256.54	
November 12, 1987 (2)	2905.86	30552.98	173714.46	For 110-999 kVA: 4.17/30000 kWh For 1000 kVA and over: 4.07/100000 kWh
(3)	2999.38	31175.14	176825.82	
January 1, 1986	2623.48	25188.46	175534.46	For 100 kW and over: 5.180/40000 kWh
July 1, 1985	2492.06	23590.62	163634.02	For 100 kW and over 3.882/40000 kWh
January 1, 1983	2289.95	19989.26	136829.06	For 100 kW and over 3.197/40000 kWh
December 1, 1981	2017.20	17065.42	115347.87	For 100 kW and over 2.662/40000 kWh
October 1, 1981	1925.77	17128.41	116810.02	For 100 kVA and over: 2.791/52500 kWh
November 1980	1806.89	14980.28	93952.62	2.1
September 1980	-	14764.72	89314.59	1.961
April 1, 1980	1823.71	14306.90	86545.15	1.9
October 18, 1979	1722.50	13648.64	83327.39	1.836
July 1978	1551.80	12296.07	75069.72	1.7

* Current Rates

(1) 90% Power Factor Assumed
(2) Refers to rates charged in April to November period.
(3) Refers to rates charged in December to March period.

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR URBAN AND RURAL AREAS: NEWFOUNDLAND LIGHT AND POWER CO. LIMITED

Effective: July 1, 1989

	Urban		Rural	
	Rate	1000 kWh/Mo.	Rate	1000 kWh/Mo.
		($)		($)
Service Charge			$10.35	10.35
All kWh			5.744c/kWh	57.44
Sub-total				67.79
Discount 1.5% ($1.00 minimum)			$ 1.00	1.02
TOTAL		66.77(1)		66.77

Note: The fuel adjustment charge varies from month to month
The charge applicable to date may be obtained from the utility

(1) See page 801 for rate structure

Source: Newfoundland Light and Power Co. Limited Domestic Rate 1.1

TAXES ON ELECTRICITY BILLS IN NEW BRUNSWICK

	HEATING	LIGHTING	COOKING
RESIDENTIAL	----------	Exempt	----------
COMMERCIAL	----------	Exempt	----------
INDUSTRIAL	----------	Exempt	----------

NOTES:

Property Tax on Utility Transmission system incorporated in the structure as at April 1/77. The New Brunswick Electric Power Commission no longer has a fuel adjustment. This was incorporated into the rate stucture effective April 12, 1979.

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR FREDERICTON

Effective: April 1, 1985

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service charge	9.40	9.40	9.40	9.40	9.40
First 800 kWh at 5.82c/kWh	14.55	29.10	43.65	46.56	46.56
Rest at 4.27c/kWh	0.00	0.00	0.00	8.64	179.34
TOTAL	23.95	38.50	53.05	64.50	235.30

Source: New Brunswick Electric Power Commission RSP III A.1 page 1

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR FREDERICTON-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1985 *	23.95	38.50	53.05	64.50	235.30	4.27/800
April 10, 1984	23.25	37.37	50.70	60.88	223.68	4.07/700
April 14, 1983	21.93	35.25	47.83	57.43	211.03	3.84/700
May 25, 1981	20.15	32.40	43.97	52.79	193.99	3.53/700
May 23, 1980	18.20	29.50	40.22	48.62	183.02	3.36/700
April 12, 1979	16.50	27.00	36.00	45.00	173.00	3.20/700

* Current Rates

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR SAINT JOHN, N.B.

Effective: April 1, 1985

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge	6.67	6.67	6.67	6.67	6.67
First 700 kWh at 6.23c/kWh	15.58	31.15	43.61	43.61	43.61
Rest at 4.74c/kWh	0.00	0.00	2.37	14.22	203.82
Sub-total	22.24	37.82	52.65	64.50	254.10
Less 10% prompt payment discount	2.22	3.78	5.27	6.45	25.41
TOTAL	20.02	34.04	47.38	58.05	228.69

Source: Power Commission City of Saint John: Residential Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR SAINT JOHN, N.B. - HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1985 *	20.02	34.04	47.38	58.05	228.69	4.74/700
April 1, 1984	19.09	32.45	45.18	55.35	218.07	4.52/700
April 1, 1983	18.00	30.60	42.66	52.56	210.96	4.40/700
May 1, 1981	16.65	28.35	39.55	48.78	196.38	4.10/700

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL (NOT ALL ELECTRIC) ELECTRICITY COSTS FOR FREDERICTON

Effective: April 1, 1985

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Service Charge	9.40	9.40
Demand Charge:		
First 20 kW at nil cost	-	-
Rest at $ 7.23 per kW	578.40	7085.40
Energy Charge:		
First 5000 kWh at 8.29c per kWh	414.50	414.50
Rest at 5.02c per kWh	1004.00	24849.00
TOTAL	2006.30	32358.30

(1) 90% Power factor assumed

Source: New Brunswick Electric Power Commission:
General Service Rate III-B-1

MONTHLY COMMERCIAL (NOT ALL ELECTRIC) ELECTRICITY COSTS FOR FREDERICTON-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1985 *	2006.30	32358.30	5.02/5000 kWh
April 10, 1984	1948.12	31568.12	4.90/5000
April 14, 1983	1865.70	30331.20	4.71/5000
May 25, 1981	1719.40	27959.40	4.34/5000
May 23, 1980	1576.50	25819.50	4.02/5000
April 12, 1979	1471.10	24098.60	3.75/5000

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL (ALL ELECTRIC) ELECTRICITY COSTS FOR FREDERICTON

Effective: April 1, 1985

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Service Charge	9.40	9.40
Energy Charge:		
First 5000 kWh at 8.29c per kWh	414.50	414.50
Next 5000 kWh at 5.98c per kWh	299.00	299.00
Rest at 5.65c per kWh	847.50	27685.00
TOTAL	1570.40	28407.90

(1) 90% Power factor assumed

Source: New Brunswick Electric Power Commission:
General Service All Electric Rate

MONTHLY COMMERCIAL (ALL ELECTRIC) ELECTRICITY COSTS FOR FREDERICTON-HISTORICAL DATA

Billing Demand: Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1985 *	1570.40	28407.90	5.65/10000
April 1, 1984	1497.62	27100.12	5.39/10000
April 14, 1983	1413.60	25543.60	5.08/10000
May 25, 1981	1294.90	23334.90	4.64/10000
May 23, 1980	1156.90	20821.90	4.14/10000
April 12, 1979	1043.00	18865.50	3.75/10000

* Current Rates

(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST-JOHN

Effective: April 1, 1985

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
For 100 kW and over: All at $ 4.35 kW	435.00	4350.00
Energy Charge:		
For 100 kW and over:		
First 100 kWh per kW at 8.38c per kWh	838.00	8380.00
Rest at 5.68c per kWh	852.00	22720.00
Subtotal	2125.00	35450.00
Less 10% Prompt payment discount	212.50	3545.00
TOTAL	1912.50	31905.00

(1) 90% Power factor assumed

Source: Power Commission City of St. John:
General Service Class III Rate Schedule

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR ST. JOHN-HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
April 1, 1985 *	1912.50	31905.00	100 kW and over 5.680/100 kWh/kW
April 1, 1984	1836.00	30735.00	100 kW and over 5.50/100 kWh/kW
April 14, 1983	1738.80	29178.00	100 kW and over 5.24/100 kWh/kW
May 1, 1981	1518.75	24705.00	100 kW and over 4.23/100 kWh/kW

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR FREDERICTON

Effective: April 1, 1985

Billing Demand (1):	**150 kW**	**1 000 kW**	**5 000 kW**
	or 167 kVA	**or 1 111 kVA**	**or 5 556 kVA***
Consumption/Month:	**30 000 kWh**	**400 000 kWh**	**3 100 000 kWh**
		($)	
Demand Charge:			
For 5 - 749 kW:			
All at $ 3.92 per kW	588.00	- -	-
For 750 kW and over:			
First 2500 kW at $ 7.97 per kW	-	7970.00	19925.00
Next 5000 kW at $ 7.77 per kW	-	0.00	19425.00
Rest at $ 7.27 per kW	-	0.00	0.00
Energy Charge:			
For 5 - 749 kW:			
First 100 kWh per kW at 7.55c/kWh	1132.50	-	-
Rest at 3.55c per kWh	532.50	-	-
For 750 kW and over:			
First 900000 kWh at 3.12c per kWh	-	12480.00	28080.00
Next 1 800 000 kWh at 2.97c per kWh	-	0.00	53460.00
Rest at 2.66c per kWh	N/A.	0.00	10640.00
TOTAL	2253.00	20450.00	131530.00

(1) 90% Power factor assumed

Source: New Brunswick Electric Power Commission, Small and Large Industrial Power Rate

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR FREDERICTON - HISTORICAL DATA

Billing Demand (1): / Consumption/Month:	150 kW or 167 kVA 30 000 kWh	1 000 kW or 1 111 kVA 400 000 kWh	5 000 kW or 5 556 kVA* 3 100 000 kWh	Run Out Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1985 *	2253.00	20450.00	131530.00	For 5-749 kW: 3.550/100 kWh For 750 kW and over 2.660/2700000 kWh
April 10, 1984	2148.00	19480.00	125355.00	for 5-749 kW: 3.38/100 kWh/kW for 750 kW and over 2.54/2700000 kWh
April 14, 1983	2026.50	18450.00	118085.00	for 5-749 kW: 3.19/100 kWh/kW for 750 kW and over 2.35/2700000 kWh
May 1, 1981	1861.50	16970.00	108590.00	for 5-749 kW: 2.930/100 kWh/kW for 750 kW & over 2.160/2700000 kWh
May 1, 1980	1683.00	15350.00	98200.00	Min 5KW: 2.65/100 kWh/kW Min 750: 1.95/2700000
April 12, 1979	1554.00	14970.00	92415.00	Min 5KW: 2.48c per kWh/ 100 kWh per kW Min 750 kW: 1.83c per kWh/2700000

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SAINT JOHN

Effective: April 1, 1985

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
For 5 - 749 kW:			
All at $ 4.35 per kW	652.50	-	-
For 750 and over:			
All at $ 8.85 per kW	-	8850.00	44250.00
Energy Charge:			
For 5 - 749 kW:			
First 100 kWh per kW at 8.38c per kWh	1257.00	-	-
Rest at $ 3.94 per kWh	591.00	-	-
For 750 kW and over:			
All at 3.46c per kWh	N/A.	13840.00	107260.00
Sub-total	2500.50	22690.00	151510.00
Less 10% prompt payment discount	250.05	2269.00	15151.00
TOTAL	2250.45	20461.00	136359.00

(1) 90% Power factor assumed

Source: Power Commission, City of Saint John: Industrial Service Rate Schedule Class I & II

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR SAINT JOHN - HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1985 *	2250.45	20421.00	136359.00	For 5-749 kW: 3.94/ 100 KWh per kW For 750 kW and over: 3.46/ 100 KWh per kW
April 1, 1984	2146.50	19476.00	130050.00	for 5-749 kW: 3.75/100 kWh/kW for 750 and over: 3.30/100 kWh/kW
April 1, 1983	2251.50	18351.00	122840.99	for 5-749 kW: 3.55/100 kWh/kW for 750 and over: 3.14/100 kWh/kW
May 1, 1981	1861.65	16875.00	112986.00	for 5-749 kW: 3.26/100 kWh/kW for 750 kW and over: 2.89/100 kWh per kW

* Current Rates
(1) 90% Power Factor Assumed

Date issued: January 1, 1990
Page: 1000
Superceded date: October 1, 1986

TAXES ON ELECTRICITY BILLS IN NOVA SCOTIA

	HEATING	LIGHTING	COOKING
	$	$	$
April 1,1983 Residential	0.50	0.50	0.50

Commercial & Industrial

SIZE OF LOAD DEMAND OR CONNECTED (kW)	AMOUNT OF TAX ($)
0 - 5 Inclusive	1.00
5.1 - 10	2.00
10.1 - 15	3.00
15.1 - 20	4.00
20.1 - 25	5.00
25.1 - 30	6.00
30.1 - 35	7.00
35.1 - 40	8.00
40.1 - 45	9.00
45.1 - 50	10.00
50.1 - 55	11.00
55.1 - 60	12.00
60.1 - 65	13.00
65.1 - 70	14.00
70.1 - 75	15.00
75.1 - 80	16.00
80.1 - 85	17.00
85.1 - 90	18.00
90.1 - 95	19.00
95.1 - 100	20.00
100.1 - 105	21.00
105.1 - 110	22.00
110.1 - 115	23.00
115.1 - 120	24.00
120.1 - 125	25.00
125.1 - 130	26.00
130.1 - 135	27.00
135.1 - 140	28.00
140.1 - 145	29.00

NOTES: Health Service Taxes

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR HALIFAX

Effective: April 1, 1989

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Base Charge $7.09	7.09	7.09	7.09	7.09	7.09
First 200 kWh at 7.67c/kWh	15.34	15.34	15.34	15.34	15.34
Rest at 6.90c/kWh	3.45	20.70	37.95	55.20	331.20
Subtotal	25.88	43.13	60.38	77.43	353.63
Health service tax $0.50	0.50	0.50	0.50	0.50	0.50
TOTAL	26.38	43.63	60.88	77.93	354.13

Source: Nova Scotia Power Corporation: Domestic Service rate.

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR HALIFAX-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	3000	Cents/kWh/Over
			($)			
Effective:						
April 1, 1989 *	26.38	43.63	60.88	77.93	354.13	6.90/200
July 1, 1983 (2)	24.73	40.88	56.93	72.61	323.41	6.270/700
July 1, 1983 (1)	22.41	37.02	51.54	65.72	292.54	6.27/700
April 1, 1983 (1)	21.52	35.53	49.46	63.05	280.62	5.76/700
April 1, 1983 (2)	24.63	40.31	56.17	72.57	338.37	6.64/700
January 1, 1983 (1)	19.50	32.35	45.13	57.60	257.20	4.99/700
January 1, 1983 (2)	22.03	36.38	50.65	64.57	287.37	5.57/700
June 18, 1979 (1)	17.16	27.36	37.88	49.65	238.05	4.71/700
June 18, 1979 (2)	18.70	30.82	42.88	54.65	243.05	4.71/700
August 1978 (2)	15.00	23.75	32.83	43.20	209.20	4.15/700
March 2, 1977	15.00	23.75	32.38	40.50	170.50	3.25/700
October 1, 1975	10.31	16.12	N/A	27.74	124.19	2.4738/2667
July 1975	N/A	14.16	N/A	23.81	104.57	N/A
July 1974	N/A	10.60	N/A	16.60	70.50	N/A

* Current Rates

(1) subsidized
(2) unsubsidized
N/A - not available

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR HALIFAX

Effective: April 1, 1989

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
For 1 - 3999 kW:		
All at $ 6.16 kW	616.00	6160.00
Energy Charge:		
For 1 - 3999 kW:		
First 200 kWh per kW at 7.42c per kWh	1484.00	14840.00
Rest at 4.90c per kWh	245.00	14700.00
Subtotal	2345.00	35700.00
Plus Health Service Tax	20.00	30.00
TOTAL	2365.00	35730.00

(1) 90% Power factor assumed

Source: Nova Scotia Power Corporation: General Rate.

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR HALIFAX - HISTORICAL DATA

Billing Demand: / Consumption/Month:	100 kW or 111 kVA 25 000 kWh ($)	1 000 kW or 1111 kVA 500 000 kWh ($)	Run Out Cent/kWh/Over
Effective:			
April 1, 1989 *	2365.00	35730.00	4.90/200 kWh/kW
July 1, 1983 (1)	2175.00	32730.00	4.460/ 100 kWh/kW
July 1, 1983	2261.50	34270.00	4.730/ 100 kWh/kW
April 1, 1983	2261.50	34270.00	4.73/100 kWh/kW
April 1, 1983 (1)	2175.00	32730.00	4.46/100 kWh/kW
January 1, 1983	2012.00	30450.00	4.20/100 kWh/kW
January 1, 1983 (1)	1935.00	29080.00	3.96/100 kWh/kW
June 18, 1979	1703.50	25740.00	3.55/100 kWh/kW
June 18, 1979 (1)	1638.50	24590.00	3.35/100 kWh/kW

* Current Rates
(1) All electric
(2) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR HALIFAX

Effective: April 1, 1989

Billing Demand (1): **Consumption/Month:**	150 kW or 167 kVA 30 000 kWh	1 000 kW or 1 111 kVA 400 000 kWh	5 000 kW or 5 556 kVA* 3 100 000 kWh
		($)	
Demand Charge:			
For up to 249 kVA:$ 4.55/kVA	759.85	-	-
For 250 - 3999 kVA:$ 7.11/kVA	-	7899.21	-
For 4000 kVA and over:$ 6.39/kVA	-	-	35502.84
Energy Charge:			
For up to 249 kVA: First 200 kWh/kVA at 7.27c/kWh	2181.00	-	-
Rest at 4.80c per kWh	-	-	-
For 250 - 3999 kVA: All at 4.20c per kWh	-	16800.00	-
For 4000 kVA and over: All at 3.71c per kWh	-	-	121830.00
Sub-total	2940.85	24699.21	157332.84
Health Tax	30.00	30.00	30.00
TOTAL	2970.85	24729.21	157362.84

(1) 90% Power factor assumed
(2) Source: Nova Scotia Power Corporation; Small Industrial Rate.
(3) Source: Nova Scotia Power Corporation; Medium Industrial Rate.
(4) Source: Nova Scotia Power Corporation; Large Industrial Rate.

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR HALIFAX - HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
April 1, 1989 *	2970.85	24729.21	157362.84	For 0-249 kVA: 4.80/ 200 kWh/kVA For 250 - 3999 kVA: 4.20/All kWh For 4000 kVA & over 3.93/All kWh
July 1, 1983	2991.40	23353.70	148542.68	For 0-249 kVA: 4.75/ 100 kWh/kVA For 250 - 3999 kVA: 3.97/All kWh For 4000 kVA & over 3.71/All kWh
April 1, 1983	2991.40	22330.14	148542.68	For 0 - 249 kVA 4.750/100 kWh/kVA For 250 - 3999 kVA 3.970/all For 4000 and over 3.30/all
January 1, 1983	2662.06	19851.56	132110.16	For 0 - 249 kVA 4.220/100 kWh/kVA For 250 - 3999 kVA 3.530/all For 4000 and over 3.30/all

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR URBAN AND RURAL AREAS: NOVA SCOTIA POWER CORPORATION

Effective: April 1, 1989

	Urban		Rural	
	Rate	1000 kWh/Mo.	Rate	1000 kWh/Mo.
		($)		($)
Base charge $ 7.09			$ 7.09	7.09
First 200 kWh			7.67c/kWh	15.34
rest			6.90c/kWh	55.20
Subtotal				77.43
Health service $ 0.50			$ 0.50	0.50
TOTAL		77.93 *		77.93

Source: Nova Scotia Power Corporation: Domestic Rate.
* See residential for Halifax for rate breakdown (pg. 1001)

Taxes and Discounts on Electricity Bills in Prince Edward Island

Income Tax Rebate applicable to all rate classes

August 1986	-6.9000%
July 1985	-4.4714%
September 1984	-2.2823%
April 1984	-2.2429%
March 1983	-2.6886%
February 1983	-2.3503%
January 1983	-2.5178%
December 1982	-2.6286%

N.B. : An additional rebate of 17% for all Industrial customers in effect as of July 1,1986

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR CHARLOTTETOWN

Effective: January 1990 only

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Service Charge $ 5.53	5.53	5.53	5.53	5.53	5.53
Energy Charge*					
All kWh at 9.148c/kWh	22.87	45.74	68.61	91.48	457.40
Sub-total	28.40	51.27	74.14	97.01	462.93
Less: 1.20% Income Tax Rebate	0.34	0.62	0.89	1.16	5.56
TOTAL	28.06	50.65	73.25	95.85	457.37

Source: Maritime Electric All Electric Residential Charlottetown Rate

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR CHARLOTTETOWN-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1990 only *	28.06	50.65	73.25	95.85	457.37	9.148/all
Sept. 1986 only (1)*	23.31	41.64	59.97	78.31	371.65	7.877/all
July 1985 only	34.95	64.57	94.20	123.82	597.84	8.720/all
July 1985 only (1)	33.40	61.66	89.92	118.18	570.33	8.157/all
Sept 1984 only	31.92	56.37	80.82	105.27	496.49	10.009/200
Sept 1984 only (1)	30.41	53.74	77.06	100.38	473.55	9.547/200
April 1984 only	37.00	66.03	95.07	124.10	588.60	11.879/200
April 1984 only (1)	35.40	63.22	91.05	118.87	564.06	11.385/200
Sept. 1983 only	32.30	56.94	81.58	106.22	500.47	10.112/200
Sept. 1983 only (1)	30.76	54.24	77.72	101.20	476.90	9.637/200
Feb. 1983 only	31.93	56.41	80.88	105.36	496.98	10.026/200
Feb. 1983 only (1)	30.42	53.77	77.11	100.46	474.03	9.564/200
May 1982 only	31.60	55.49	79.38	103.27	485.51	9.556/200
May 1982 only (1)	30.04	52.76	75.49	98.21	461.81	9.090/200
Oct. 1981 only	30.01	52.99	75.98	98.96	466.72	9.194/200
Oct. 1981 only (1)	28.60	50.52	72.44	94.36	445.12	8.769/200
Jan. 1981 only	25.99	43.58	61.18	78.77	360.29	7.038/200
Jan. 1980 only	23.04	38.03	53.03	68.02	307.94	5.998/200

* Current Rates
N/A - not available
(1) All Electric

CALCULATION OF MONTHLY COMMERCIAL (ALL ELECTRIC) ELECTRICITY COSTS FOR CHARLOTTETOWN

Effective: January 1990 only

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
$ 5.00 per kW	555.00	5555.00
Energy Charge:		
First 200 kWh/kW at 8.684c/kWh	1927.85	19295.85
Rest at 6.485c per kWh	181.58	18015.33
Total Energy Charge	2109.43	37311.18
Subtotal	2664.43	42866.18
Less:21.20% Income Tax Rebate	564.86	9087.63
TOTAL	2099.57	33778.55

(1) 90% Power factor assumed

Source: Maritime Electric - General Service Rate

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR CHARLOTTETOWN - HISTORICAL DATA

Billing Demand: / Consumption/Month:	100 kW or 111 kVA 25 000 kWh	1 000 kW or 1111 kVA 500 000 kWh	Run Out Cent/kWh/Over
	($)	($)	
Effective:			
January 1990 only *	2099.57	33778.55	6.485/ 200 kWh/kVA
Sept. 1986 only (2)	2296.40	39591.71	7.144/ 200 kWh/kVA
July 1985 only	3429.72	59078.74	10.373/200 kWh/kVA
July 1985 only (2)	3342.88	60250.87	11.231/200 kWh/kVA
Sept. 1984 only	3005.08	50736.26	8.464/200 kWh/kVA
Sept. 1984 only (2)	2813.83	48939.96	8.515/200 kWh/kVA
April 1984 only	3500.74	60010.45	10.227/200 kWh/kVA
April 1984 only (2)	3297.25	58100.96	10.282/200 kWh/kVA
Sept. 1983 only	3037.97	51152.67	8.522/200 kWh/kVA
Sept. 1983 only (2)	2843.46	49325.67	8.574/200 kWh/kVA
Feb. 1983 only	3007.16	50786.67	8.482/200 kWh/kVA
Feb. 1983 only (2)	2816.07	48991.83	8.533/200 kWh/kVA
May 1982 only	2967.17	49672.92	7.997/200 kWh/kVA
May 1982 only (2)	2770.45	47827.00	8.049/200 kWh/kW
October 1981 only	2825.25	47693.00	7.773/200 kWh/kVA
October 1981 only (2)	2646.20	46012.00	7.820/200 kWh/kW

* Current Rates
(1) 90% Power Factor Assumed
(2) All Electric

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR CHARLOTTETOWN

Effective: January 1990 only

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
All at $ 3.76 per kVA	627.92	4177.36	20890.56
Energy Charge:			
First 200 kWh/kVA at 8.617c/kWh	2585.10	19146.97	95752.10
Rest at 7.153c per kWh	0.00	12718.03	142258.86
Total Energy Charge	2585.10	31865.00	238010.96
Sub-total	3213.02	36042.36	258901.53
Less: 1.20% Income Tax Rebate	38.56	432.51	3108.82
Less: 20% Indust. Assist. Reb.	642.60	7208.47	51780.30
TOTAL	2531.86	28401.38	204014.40

(1) 90% Power factor assumed

Source: Maritime Electric Large Industrial Rate and for over 750 kVA, Large Industrial Rate

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR CHARLOTTETOWN - HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
January 1990 only	2531.86	28401.38	204014.40	7.153/200 kWh/kVA
Sept. 1986 only	2149.22	23873.57	170544.48	6.113/200 kWh/kVA
July 1985 only	3881.06	45635.70	335178.53	6.538/200 kWh/kVA
September 1984 only	3374.49	38982.19	283918.18	8.280/200 kWh/kVA
April 1984 only	3980.05	46309.66	33940.83	under 750 kVA 10.09/200 kWh/kVA 750 kVA: 10.03/200 kWh/kVA
September 1983 only	3434.21	39286.16	285773.77	under 750 kVA 8.39/200 kWh/kVA over 750 kVA: 8.33/200 kWh/kVA
February 1983 only	3400.78	39027.10	284284.90	under 750 kVA 8.350/200 kWh/kVA over 750 kVA: 8.299/200 kWh/kVA
May 1982 only	3346.34	38082.88	276352.52	under 750 kVA 7.865/200 kWh/kVA over 750 kVA: 7.812/200 kWh/kVA
October 1981 only	3196.08	36648.27	266901.94	under 750 kVA 7.653/200 kWh/kVA over 750 kVA: 7.605/200
January 1981 only	-	27763.63	201962.48	750 kVA and over: 5.740/180 kWh/kVA
July 1979 only	1952.05	21885.79	157755.67	under 750 kVA 4.616/90 kWh/kVA 750 kVA: 4.393/180 kWh/kVA

* Current Rates
(1) 90% Power Factor Assumed

Date issued: January 1, 1990
page: 1200
Superceded date: October 1, 1986

TAXES ON ELECTRICITY BILLS IN NORTHWEST TERRITORIES

	HEATING	LIGHTING	COOKING
Residential	----------	Exempt	----------
Commercial	----------	Exempt	----------
Industrial	----------	Exempt	----------

Municipal Franchise Tax:

Yellowknife: effective March 1, 1986, 3.13% all categories

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR YELLOWKNIFE

Effective: January 1, 1990

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Fixed Charge $10.00	10.00	10.00	10.00	10.00	10.00
All at 9.10c/kWh	22.75	45.50	68.25	91.00	455.00
Sub-total	32.75	55.50	78.25	101.00	465.00
Franchise tax: 2.40%	0.79	1.33	1.88	2.42	11.16
TOTAL	33.54	56.83	80.13	103.42	476.16

Source: I.C.G., Yellowknife distric, Domestic Rate Schedule

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR YELLOWKNIFE-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
January 1, 1990 *	33.54	56.83	80.13	103.42	476.16	9.100/all
December 1, 1987	33.57	56.89	80.21	103.53	476.63	9.100/all
March 1, 1986	21.95	41.85	61.75	81.66	400.12	7.720/75
September 11, 1983	25.84	49.65	73.46	97.26	478.19	9.30/75
April 11, 1983	25.97	49.89	73.82	97.74	480.53	9.30/75
March 1983	25.05	47.04	71.04	94.04	462.01	8.94/75
February 11, 1983	24.05	46.07	68.09	90.11	442.44	8.56/75
May 1982	33.96	65.92	97.87	129.83	641.06	12.55/75
December 1981	24.62	47.26	69.91	92.55	454.87	9.058/75
October 1981	21.67	33.36	61.06	80.75	395.87	7.878/75
October 1978	12.50	19.53	37.45	49.92	289.44	4.55/300

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR YELLOWKNIFE

Effective: January 1, 1990

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
$ 7.50 per kVA	832.50	8332.50
Energy Charge:		
All at 7.92c per kWh	1980.00	39600.00
Subtotal	2812.50	47932.50
Franchise tax: 2.40%	67.50	1150.38
TOTAL	2880.00	49082.88

(1) 90% Power factor assumed

Source: I.C.G., Yellowknife District General Service Rate Schedule

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR YELLOWKNIFE - HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
January 1, 1990 *	2880.00	49082.88	7.92/ all
December 1, 1987	2916.13	49797.06	8.05/ all
March 1, 1986	2477.29	48287.63	9.12/50 kWh per kVA
September 11, 1983	2864.23	56035.43	10.70/50 kWh per kVA
April 11, 1983	2878.22	56309.04	10.70/50 kWh per kVA
March 1, 1983	2785.61	54456.84	10.34/50 kWh per kVA
February 11, 1983	2687.85	52501.74	9.96/50 kWh per kVA
May 1982	3676.59	72283.65	13.95/50 kWh per kVA
December 1981	2736.60	53512.10	10.458/50 kWh/kVA
October 1981	2441.60	47612.10	9.279/50 kWh/kVA
October 1978	1822.00	36440.00	6.85/all

* Current Rates
(1) 90% Power Factor Assumed

TAXES ON ELECTRICITY BILLS IN YUKON TERRITORIES

	HEATING	LIGHTING	COOKING
Residential	----------	Exempt	----------
Commercial	----------	Exempt	----------
Industrial	----------	Exempt	----------

YUKON ELECTRICAL COMPANY LIMITED
SUMMARY OF FUEL ADJUSTMENT APPLICABLE FOR ALL RATES SHOWN FOR WHITEHORSE

September 1,1983	0.0c per kWh
April 26,1983	1.3c per kWh
September 26,1982	0.8c per kWh
August 26,1982	1.0c per kWh
July 1,1982	2.015c per kWh
August 1,1981 to June 30,1982	1.9c per kWh

CALCULATION OF MONTHLY RESIDENTIAL ELECTRICITY COST FOR WHITEHORSE

Effective: June 1, 1986

	kWh Per Month				
	250	500	750	1000	5000
			($)		
Customer Charge $ 3.30	3.30	3.30	3.30	3.30	3.30
First 200 kWh at 7.50c/kWh	15.00	15.00	15.00	15.00	15.00
Next 300 kWh at 7.00c/kWh	3.50	21.00	21.00	21.00	21.00
Rest at 6.60c/kWh	0.00	0.00	16.50	33.00	297.00
TOTAL	21.80	39.30	55.80	72.30	336.30

Source: Yukon Electrical Rate Schedule Y-11

MONTHLY RESIDENTIAL ELECTRICITY COSTS FOR WHITEHORSE-HISTORICAL DATA

	kWh Per Month					Run Out
	250	500	750	1000	5000	Cents/kWh/Over
			($)			
Effective:						
June 1, 1986 *	21.80	39.30	55.80	72.30	336.30	6.600/500
January 1, 1986	21.05	37.80	53.55	69.30	321.30	6.300/500
January 1, 1984	20.30	36.30	51.30	66.30	306.30	6.00/500
September 1, 1983	20.70	37.20	52.70	68.20	316.20	6.20/500
February 15, 1983	18.31	32.66	46.09	59.51	274.31	5.37/500
August, 1981	21.06	38.16	54.34	70.51	329.31	6.47/500
February 25, 1980	14.63	24.93	34.81	44.68	202.68	3.95/300

* Current Rates

CALCULATION OF MONTHLY COMMERCIAL ELECTRICITY COSTS FOR WHITEHORSE

Effective: June 1, 1986

Billing Demand (1):	100 kW or 111 kVA	1 000 kW or 1 111 kVA
Consumption/Month:	25 000 kWh	500 000 kWh
	($)	($)
Demand Charge:		
$ 1.10 per kW	110.00	1100.00
Energy Charge:		
First 200 kWh per kW at 8.90c per kWh	1780.00	17800.00
Next 200 kWh per kW at 7.80c per kWh	390.00	15600.00
Rest at 6.60c per kWh	0.00	6600.00
TOTAL	2280.00	41100.00

(1) 90% Power factor assumed

Source: Yukon Electric, General Service Rate Schedule Y-21

MONTHLY COMMERCIAL ELECTRICITY COSTS FOR WHITEHORSE - HISTORICAL DATA

Billing Demand:	100 kW or 111 kVA	1 000 kW or 1111 kVA	Run Out
Consumption/Month:	25 000 kWh	500 000 kWh	Cent/kWh/Over
	($)	($)	
Effective:			
June 1, 1986 *	2280.00	41100.00	6.60/400 kWh per kW
January 1, 1986	2205.00	39600.00	6.30/400 kWh per kW
January 1, 1984	2130.00	38100.00	6.00/400 kWh per kW
September 1, 1983	2155.00	38850.00	6.20/400 kWh per kW
February 15, 1983	1915.00	34230.00	5.37/400 kWh per kW
August 1981	2190.50	39730.00	6.47/400 kWh per kw
October 1, 1978	1537.10	25426.00	3.95/200 kWh per kW

* Current Rates
(1) 90% Power Factor Assumed

CALCULATION OF MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR WHITEHORSE

Effective: June 1, 1986

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*
Consumption/Month:	30 000 kWh	400 000 kWh	3 100 000 kWh
		($)	
Demand Charge:			
$ 6.40 per kVA for all	1068.80	7110.40	35558.40
Energy Charge:			
In excess of 100 kWh/kVA at 6.70c/kWh	891.10	19356.30	170474.80
TOTAL	1959.90	26466.70	206033.20

(1) 90% Power factor assumed

Source: Yukon Electrical Co. Ltd. Rate Schedule Y-32 (Coppermines)

MONTHLY INDUSTRIAL ELECTRICITY COSTS FOR WHITEHORSE - HISTORICAL DATA

Billing Demand (1):	150 kW or 167 kVA	1 000 kW or 1 111 kVA	5 000 kW or 5 556 kVA*	Run Out
Consumption/Month:	50 000 kWh	400 000 kWh	3 100 000 kWh	Cents/kWh/Over
	($)	($)	($)	
Effective:				
June 1, 1986 *	1959.90	26466.70	206033.20	6.70/100 kWh/kVA
January 1, 1986	1920.00	25600.00	198399.99	6.40/ 100 KWh/kVA
January 1, 1984	1871.75	24677.75	190489.00	6.1/100 kWh per kVA
September 1, 1983	1706.30	23977.90	189188.40	6.3/100 kWh per kVA
February 15, 1983	1685.07	22233.31	171666.76	5.5/100 kWh per kVA
August 1981	2015.07	26633.31	205766.76	6.6/100 kWh per kVA
February 25, 1981	1275.40	16782.20	129471.20	4.14/100 kWh per kVA

* Current Rates
(1) 90% Power Factor Assumed